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STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA

FOR THE YEAR ENDED DECEMBER 31, 1972
BASED ON FPC FORM NO.67

SUMMARY REPORT

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PREFACE

This publication, covering the calendar year 1972, is the fourth summary in a series based on FPC Form 67. 1/ For purposes of this publication Form 67 information is supplemented with plant-by-plant annual generation and plant heat rate data from FPC Form 1. 2/

The first summary (FPC publication number S-229), published in February of 1973, covered the calendar year 1969. The second summary (FPC S-233), published in July 1973, covered 1970. The third summary (FPC S-239), published in June 1974, covered 1971. This series of summaries represents an effort by the Commission to gather and disseminate annually reliable and complete information about the nationwide impact of steam-electric power plants on the environment. The methodology employed in the preparation of this and the earlier summaries is explained in detail in the 1969 Summary Report.

All the summary reports in this series may be obtained by mail from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, or they may be purchased over the counter at the GPO bookstore. The prices of the publication are:

	By Mail	Over the Counter
S-229 (1969)	$2.60	$2.25
S-233 (1970)	$1.95	$1.95
S-239 (1971)	$2.00	$2.00

Please address all comments and inquiries regarding this summary to:

Section of Fuel and Environmental Analysis
Bureau of Power
Federal Power Commission
Washington, D. C. 20426

1/ A Copy of FPC Form No. 67 is Included as an Appendix to the 1969 Summary, the First in this Series.

2/ FPC Form No. 1 is completed annually by electric utilities and deals with the financial and generating aspects of their operations.

DISCUSSION OF FORM 67 DATA

This discussion is based on data contained in the Summary for 1972 and, where appropriate, it includes a comparison with data presented in previous summaries. 3/ The comparison serves as a basis for noting significant differences and possible trends in the quantities measured.

As in the earlier issues, the 1972 data is displayed in 18 summary tables (nine pairs): ten tables (five pairs) summarize air quality data and eight tables (four pairs) summarize water quality data, respectively. The first in each pair of air quality tables gives state totals and a national total for each quantity measured. The second table in each pair presents the totals for each Air Quality Control Region designated by the Environmental Protection Agency. Similarly, the first in each pair of water quality tables gives state and national totals, while the second in each pair presents the totals for each Water Resource Region.

Also included are: 1) 140 page detailed table with individual plant data for each of the 696 plants covered by this report; 2) An alphabetical listing of the plants (Appendix 1); 3) A map showing each Air Quality Control Region (Appendix 2); 4) A map showing the Water Resource Regions (Appendix 3); and 5) A map outlining the major Geographic Divisions of the United States (Appendix 4).

a. Growth of the Industry

To keep pace with the nation's growing demand for electric energy, steam-electric plants in 1972 generated more electricity, consumed more primary energy and required more cooling capacity than ever before. In 1972, generating capacity reported on Form 67 increased 9.3 percent, from 283,411 to 309,861 megawatts. During this period steam-electric plants reporting on Form 67, both fossil-fired and nuclear, generated 1,412 million megawatt-hours of electricity, up 9.1 percent from 1,294 million megawatt-hours generated in 1971.

In meeting this increased demand for electric power utilities reporting on Form 67 required fossil fuels equivalent to 14.4 quadrillion Btu, or 14×10^{15} Btu, an increase of 7.5 percent from the 13.4 quadrillion Btu's consumed during 1971. The following tabulation gives a yearly break-down of the total energy consumed and the percent energy supplied by each type of fossil fuel during the past four years:

3/ The Summary for 1969 was the first in the series. It included a detailed explanation of the methodology employed in estimating emissions of particulates, sulfur dioxide, and oxides of nitrogen along with other data editing and computational routines. The explanation is not repeated here.

	TOTAL BTU ($\times 10^{15}$)				% OF TOTAL BTU			
	1969	1970	1971	1972	1969	1970	1971	1972
Coal	7.065	7.098	7.244	7.794	58.5	54.9	54.0	53.9
Oil	1.577	2.008	2.328	2.816	13.1	15.5	17.4	19.6
Gas	3.429	3.820	3.841	3.811	28.4	29.6	28.6	26.5
TOTAL	12.071	12.926	13.413	14.421	100.0	100.0	100.0	100.0

The table shows that between 1971 and 1972 increases in oil consumption by electric utilities (up 20.9 percent) continued to grow at a greater rate than coal (up 7.6 percent), while gas use declined for the first time (down 0.8 percent). The increases in coal consumption during the year generally occurred in geographic regions where, over the past four years, coal use has successfully competed with other boiler fuels. For the first time since the collection of Form 67 data began, substantial quantities of coal were consumed in the West South Central (1.8 million tons) and Pacific (2.0 million tons) regions, while at the same time, utility coal consumption experienced further reductions in the New England and Middle Atlantic regions. In 1972, as in each of the previous three years, the consumption of oil by electric utilities increased in all geographic regions. Although, in terms of absolute quantity, the greatest increases took place in regions bordering the East and West coasts oil consumption in the East North Central and East South Central regions increased by 15.5 and 143.1 percent, respectively. In addition, oil consumed by utilities in the West North Central and West South Central regions increased over 1971 use by 129.0, and 122.9 percent, respectively. Between 1971 and 1972, boiler use of gas for raising steam declined in six of the nine major geographic regions. The increases in gas consumption occurred in the three western regions, i.e. the West South Central (up 7.3 percent), the Mountain (up 12.4 percent) and the Pacific region (up 7.7 percent). During 1972 the West South Central region accounted for nearly 54 percent of the total utility natural gas consumption. The various trends are reflected in the following tables:

REGIONAL CHANGES IN COAL USE PATTERNS
INCREMENT (+) OR DECREMENT (-) IN CONSUMPTION (MILLION TONS) AND % CHANGE

Region	1969 to 1972		1971 to 1972	
	Quantity	% Change	Quantity	% Change
New England	- 3.8	- 75.6	- 1.4	- 53.3
Middle Atlantic	- 0.7	- 1.6	- 1.3	- 2.9
East North Central	+ 10.5	+ 9.1	+ 5.6	+ 4.7
West North Central	+ 8.4	+ 41.1	+ 2.9	+ 11.0
South Atlantic	+ 7.7	+ 12.2	+ 5.3	+ 8.0
East South Central	+ 9.6	+ 20.6	+ 5.7	+ 11.2
West South Central	+ 1.8	-	+ 1.8	-
Mountain	+ 9.5	+ 93.2	+ 3.9	+ 24.5
Pacific	+ 2.0	-	+ 2.0	-
U. S. TOTALS	+ 44.9	+ 14.8	+ 24.4	+ 7.5

REGIONAL CHANGES IN OIL USE PATTERNS
INCREMENT (+) OR DECREMENT (-) IN CONSUMPTION (MILLION BBLS.) AND % CHANGE

Region	1969 to 1972		1971 to 1972	
	Quantity	% Change	Quantity	% Change
New England	+ 25.8	+ 45.6	+ 10.9	+ 15.4
Middle Atlantic	+ 45.1	+ 45.2	+ 13.9	+ 10.1
East North Central	+ 17.1	+ 836.1	+ 2.6	+ 16.1
West North Central	+ 2.3	+ 280.1	+ 1.8	+ 128.9
South Atlantic	+ 75.4	+ 145.6	+ 33.4	+ 35.6
East South Central	+ 3.6	+ 646.8	+ 2.4	+ 143.1
West South Central	+ 7.1	+1,835.3	+ 4.1	+ 122.9
Mountain	+ 1.3	+ 61.6	+ 0.4	+ 14.3
Pacific	+ 19.6	+ 87.9	+ 7.9	+ 23.1
U. S. TOTALS	+ 197.3	+ 83.5	+ 76.5	+ 21.8

REGIONAL CHANGES IN GAS USE PATTERNS
INCREMENT (+) OR DECREMENT (-) IN CONSUMPTION (MILLION Mcf) AND % CHANGE

Region	1969 to 1972		1971 to 1972	
	Quantity	% Change	Quantity	% Change
New England	+ 0.7	+ 11.0	- 3.5	- 34.2
Middle Atlantic	- 72.0	- 49.1	- 39.7	- 34.7
East North Central	- 12.7	- 7.5	- 85.4	- 35.2
West North Central	- 4.3	- 1.3	- 17.1	- 5.1
South Atlantic	- 22.7	- 9.4	- 69.2	- 24.0
East South Central	- 4.3	- 3.5	- 9.7	- 7.5
West South Central	+ 430.2	+ 27.7	+ 134.5	+ 7.3
Mountain	+ 61.3	+ 37.3	+ 25.7	+ 12.8
Pacific	+ 11.8	+ 2.0	+ 42.8	+ 7.7
U. S. TOTALS	+ 388.0	+ 11.7	- 21.6	- 0.6

b. Fuel Quality

The gradual decline in the average heating value of oil and gas continued in 1972, while, for the first time during the four years surveyed, the average heating value of coal increased. These changes are reflected in the following tabulation:

	Oil, Btu/Gal.	Gas, Btu/Cu. Ft.	Coal, Btu/Lb.
1969	148,727	1,033	11,628
1970	147,991	1,031	11,276
1971	147,017	1,030	11,169
1972	146,285	1,028	11,176

Also, after increasing during the previous three years, the average ash content of coal declined in 1972, while, as the following tabulation shows, the average sulfur level of coal and oil continued to drop:

	Coal, % Ash	Coal, % Sulfur	Oil, % Sulfur
1969	12.53	2.59	1.68
1970	13.72	2.58	1.52
1971	13.85	2.47	1.28
1972	13.41	2.39	1.07

When expressed in pounds of sulfur per million Btu, the terms in which an increasing number of states are specifying their 1975 sulfur emissions regulations, the average sulfur level of coal has not significantly improved between 1969 and 1972; however, consistent progress has been made in lowering the average sulfur level of oil:

Pounds of Sulfur per Million Btu

	Coal	Oil
1969	2.23	0.90
1970	2.29	0.82
1971	2.21	0.70
1972	2.14	0.59

The total reported air quality control expenses reached $84.5 million in 1972, an increase of $11.7 million, or 16.1 percent, over 1971. On a national basis the 1972 expenses amounted to about 0.060 mills per kilowatt-hour, up from the 0.056 mills per kilowatt-hour reported in 1971. These expenses did not include additional costs incurred when purchasing low-sulfur fuel for meeting air quality regulations.

The following tabulation gives the yearly break-down of fly ash, sulfur dioxide and nitrogen oxides emitted during the past four years, and their emissions per thousand megawatt-hours:

	FLY ASH		SULFUR DIOXIDE		NITROGEN OXIDES	
	Thousand Tons	Tons Per Thousand Megawatt-Hrs	Thousand Tons	Tons Per Thousand Megawatt-Hrs	Thousand Tons	Tons Per Thousand Megawatt-Hrs
1969	4,293	3.76	16,826	14.73	4,832	4.23
1970	4,250	3.48	17,521	14.24	5,189	4.22
1971	3,830	2.96	17,237	13.32	5,392	4.17
1972	3,608	2.55	17,781	12.59	5,887	4.17

Particulates: The total ash content of coal burned by steam-electric plants increased from 44.9 million tons in 1971 to 46.8 million tons in 1972, an increase of 4.2 percent, while the calculated emissions of particulate matter decreased from 3,830 thousand tons to 3,608 thousand tons, a drop of 5.8 percent. This reduction in particulate emissions was primarily the result of installation of new precipitator units and the up-grading of older units. The installed cost of all precipitators increased by $156.8 million from 1971 to 1972, an increase of 30.5 percent, more than doubling any such annual increase previously reported on Form 67.

Sulfur Oxides: The total sulfur content of coal and oil consumed by steam-electric plants rose from 8.8 million tons in 1971 to 9.1 million tons in 1972, an increase of 3.4 percent. Likewise, the calculated emissions of sulfur oxides increased from 17,237 thousand tons to 17,781 thousand tons, an increase of 3.2 percent. However, on the basis of tons emitted per thousand megawatt-hours generated, sulfur oxide emissions dropped from 13.32 in 1971 to 12.59 in 1972, a decrease of about 5.5 percent. This reduction was achieved exclusively with the use of fuels of lower average sulfur levels than were burned during 1971. The installed cost of all types of flue gas desulfurization systems reached $27.4 million in 1972, a substantial increase over the 1971 total of $1.6 million. The $27.4 million expenditure excludes a $1.3 million experimental wet scrubber system installed in 1968 at Union Electric's Meramec plant, and removed from service during 1972. The $27.1 million outlay in 1972 accounted for the installation of four additional units; a Magnesium Oxide Scrubber installed at Boston Edison's Mystic plant, at a cost of $4.0 million; a Monsanto Catalytic Oxidation system installed for $6.8 million at Illinois Power's Wood River plant, and a set of Venturi Wet Scrubbers installed at Commonwealth Edison's Will County plant, and costing $15.0 million. All three systems were in various test stages during the year, and had no measurable effect on the emissions of sulfur oxides.

Oxides of Nitrogen: Emissions of nitrogen oxides are calculated as a function of the fuel quantity and type and, in the case of coal, also of the boiler design. (A more detailed description of the computational methodology is given in the 1969 Summary). In the absence of any significant development in nitrogen oxides control technology, emissions in terms of tons per thousand megawatt-hours remained about the same during the four years surveyed. However, the calculated total emissions increased from 4,832 thousand tons in 1969 to 5,189 thousand tons in 1970, and from 5,392 thousand tons in 1971 to 5,887 thousand tons in 1972.

c. Water Pollution Control

The operation of steam-electric plants involves the disposal of large quantities of waste heat. The amount of heat to be disposed of depends upon the type and efficiency of the plant. Although the most efficient plants achieve efficiencies of about 40 percent, the average for all steam-electric plants in 1972 was about 33 percent (heat rate of 10,379 BTU). In the operation of a plant, some heat is lost within the plant and through the stack. On the average, however, more than one-half of the heat input is discharged to the cooling water in the condensing process. The heat added to the water must then be dissipated by some cooling method.

The following tabulation shows the extent to which various types of cooling were used by the 695 plants for which information on cooling systems was obtained by the 1972 Form 67 reports relating to installed capacities totaling 309,836 megawatts. For comparison, corresponding percentages are shown for the 689 plants with capacities totaling 283,410 megawatts as reported in 1971, the 681 plants with capacities totaling 261,713 megawatts as reported for 1970, and the 651 plants with capacities totaling 242,927 megawatts as reported for 1969.

	Percent of Total Number of Plants				Percent of Total Installed Capacity			
Type of Cooling	1969	1970	1971	1972	1969	1970	1971	1972
Once-through, fresh	49.8	49.4	48.1	47.2	50.5	50.1	47.7	45.4
Once-through, saline	18.9	18.5	18.1	17.3	23.5	22.8	21.5	20.9
Cooling ponds	5.4	5.7	6.0	6.3	5.9	6.7	7.3	8.0
Cooling towers	17.2	17.5	18.1	18.6	10.9	11.2	12.9	13.4
Combined systems	8.7	8.9	9.7	10.6	9.2	9.2	10.6	12.3
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

As indicated, the majority of plants providing the major share of steam-electric capacity employed once-through cooling using either fresh or saline water. During the 4-year period, however, there was an increasing trend away from once-through cooling toward the use of cooling ponds, cooling towers, and combined systems. The latter types of cooling facilities (ponds, towers, and combined systems) were used by 26.0 percent

of the total installed capacity reported for 1969, compared with 33.7 percent in 1972. Essentially all towers were of the evaporative type, and little use has been made so far of nonevaporative (dry) cooling towers. Cooling towers using saline waters for cooling have not been reported. Implementation of recent State and Federal water pollution control legislation will accelerate the use of cooling ponds and towers.

The total average rate of withdrawal of fresh water for cooling purposes in 1972 was reported to be 182,558 cubic feet per second. This rate is equivalent to about ten percent of the average annual runoff of all streams in the conterminous United States. Most of the water withdrawn is returned to the source water bodies. The total average rate of saline water withdrawals in 1972 was reported to be 75,136 cubic feet per second. The following tabulation shows the total reported withdrawal rates for 1969, 1970, 1971, and 1972:

	Rates of Water Withdrawal (Cfs)			
	1969	1970	1971	1972
Fresh water	165,232	172,005	172,392	182,558
Saline water	68,391	73,439	72,564	75,136

Plant rates of consumption of cooling water, as shown on line 64 of the Individual Plant Data reports, include reported amounts and also, for plants using once-through cooling, calculated amounts representing the estimated losses due to induced evaporation in receiving water bodies. The calculated amounts were included because the response for water consumption of plants using once-through cooling was incomplete in some instances. The calculated amounts were determined by multiplying the plant with-drawals by .0086 (derived in footnote 14 of table 10). However, the various totals shown in the State and regional summary tables 7-A and 7-B include only the reported amounts for all types of cooling. From these tables, the total national average rate of fresh water consumption for 1972 was 2,198 cubic feet per second. If this total is revised to include the calculated consumption rates for plants using once-through cooling, the total national rate of fresh water consumption becomes 2,843 cubic feet per second. The following tabulation shows for 1969, 1970, 1971, and 1972, the total reported rates of fresh water consumption and the total reported rates modified to include calculated amounts for plants with once-through cooling:

	Rates of Consumption of Fresh Water (Cfs)			
	1969	1970	1971	1972
Consumption (using reported amounts)	1,058	881	1,267	2,198
Consumption (using calculated losses for once-through cooling systems	1,933	1,830	2,129	2,843
	Percent of Withdrawal (fresh water)			
Consumption (using calculated losses for once-through cooling systems)	1.17	1.06	1.23	1.56

The principal chemical additives reported for cooling water treatment were phosphate, lime, alum, and chlorine, with the latter being used in the largest amounts. The principal use of the additives is to prevent the fouling of condenser tubes. Phosphate, caustic soda, lime, alum, and chlorine were used for boiler water treatment, with caustic soda being used in the largest amounts.

The total reported capital cost of cooling water facilities in 1972, as shown in the State and regional summary tables 9-A and 9-B, was $1,336 million, an increase of $130 million (10.8 percent) over 1971, $253 million (23.4 percent) over 1970, and $363 million (37.3 percent) over 1969. The unit costs, capital cost per kilowatt of plant capacity, of the various types of cooling systems in 1972 were $5.06 for once-through cooling facilities using fresh water, $5.00 for once-through cooling facilities using saline water, $9.31 for cooling ponds, and $7.03 for cooling towers.

The total operating expenses for cooling water facilities in 1972 were reported to be $35.4 million for operation and maintenance and $7.0 million for chemical additives, as shown in the State and regional summary tables 9-A and 9-B. Assuming fixed charges of 15 percent of the capital costs, the total expenses for the year would amount to $242.8 million. This is equivalent to approximately 0.22 mills per kilowatt-hour of plant generation.

Because of missing cost data on some of the Form 67's, the above capital costs and annual operating expenses correspond to about 80 percent of the total generating capacity which was reported on in the Form 67's.

TABLE 1-A

FUEL CONSUMPTION AND QUALITY, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	COAL				OIL			GAS		LINE NO
		CONSUMPTION (1000 TONS)	AVERAGE HEATING VALUE (BTU/LB.)	AVERAGE SULFUR (%)	AVERAGE ASH (%)	CONSUMPTION (1000 BBLS)	AVERAGE HEATING VALUE (BTU/GAL.)	AVERAGE SULFUR (%)	CONSUMPTION (1000 MCF)	AVERAGE HEATING VALUE (BTU/CF.)	
	NEW ENGLAND										
1	CONNECTICUT	86.40	11,258	2.63	17.34	27,618.05	145,034	.71	.39	1,000	1
2	MAINE					5,087.70	148,267	2.12			2
3	MASSACHUSETTS					45,327.62	146,446	.70	6,158.61	1,000	3
4	NEW HAMPSHIRE	1,118.00	13,357	2.37	7.13	1,708.00	148,502	1.90			4
5	RHODE ISLAND					2,458.50	146,170	.91			5
6	VERMONT	33.00	12,873	1.46	11.95				591.70	1,000	6
7	**TOTALS**	**1,237.40**	**13,198**	**2.36**	**7.97**	**82,199.87**	**146,119**	**.82**	**6,750.70**	**1,000**	**7**
	MIDDLE ATLANTIC										
8	NEW JERSEY	1,096.86	13,013	1.32	10.24	42,867.50	144,086	.41	18,256.42	1,030	8
9	NEW YORK	6,095.21	12,302	2.13	12.12	78,231.51	145,735	.99	53,700.21	1,029	9
10	PENNSYLVANIA	35,050.84	12,011	2.35	15.56	23,772.66	144,373	.61	2,622.98	1,034	10
11	**TOTALS**	**42,242.91**	**12,079**	**2.29**	**14.92**	**144,871.67**	**145,024**	**.75**	**74,579.61**	**1,030**	**11**
	EAST NORTH CENTRAL										
12	ILLINOIS	29,069.36	10,316	2.72	11.60	8,469.91	148,001	.87	57,846.92	1,027	12
13	INDIANA	26,033.46	10,854	3.04	11.38	699.20	140,880	.21	14,583.70	1,017	13
14	MICHIGAN	20,212.36	11,828	2.74	12.89	8,601.05	145,286	1.38	55,642.40	718	14
15	OHIO	39,768.29	11,290	3.11	14.97	776.72	145,050	.55	8,801.44	961	15
16	WISCONSIN	10,120.17	11,287	2.58	10.97	574.87	137,214	.42	19,985.09	1,020	16
17	**TOTALS**	**125,203.64**	**11,060**	**2.90**	**12.78**	**19,121.75**	**146,075**	**1.05**	**156,859.55**	**912**	**17**
	WEST NORTH CENTRAL										
18	IOWA	4,649.78	10,251	2.49	10.78	113.77	138,882	.44	43,379.06	1,009	18
19	KANSAS	417.12	12,079	3.94	13.28	567.48	147,933	1.38	154,822.37	997	19
20	MINNESOTA	5,661.30	9,435	1.93	10.40	884.08	144,996	1.61	38,433.22	996	20
21	MISSOURI	12,527.46	10,795	3.46	14.14	1,223.25	148,246	1.77	49,102.80	972	21
22	NEBRASKA	1,185.71	11,483	2.67	10.80	91.90	143,051	.53	32,302.89	996	22
23	NORTH DAKOTA	4,360.10	6,672	.74	7.72	29.00	140,000	.35			23
24	SOUTH DAKOTA	52.55	10,373	2.12	9.76	249.37	151,784	1.30	2,233.95	1,002	24
25	**TOTALS**	**28,854.02**	**9,864**	**2.57**	**11.74**	**3,158.85**	**146,996**	**1.52**	**320,274.29**	**994**	**25**
	SOUTH ATLANTIC										
26	DELAWARE	1,264.60	13,022	3.14	7.98	4,755.90	149,892	1.55	3,384.70	1,009	26
27	DISTRICT OF COLUMBIA	176.47	13,150	.85	9.13	4,625.50	146,187	.93			27
28	FLORIDA	5,464.32	11,311	3.41	12.43	62,347.43	147,477	1.63	146,700.18	1,013	28
29	GEORGIA	10,936.65	11,810	1.81	11.70	3,841.00	148,693	2.28	36,433.90	1,031	29
30	MARYLAND	4,433.44	12,558	1.63	12.14	20,869.22	146,620	1.24			30
31	NORTH CAROLINA	18,685.84	11,953	1.11	13.20	4,156.90	146,353	1.47	15,254.73	1,033	31
32	SOUTH CAROLINA	5,667.90	12,213	1.25	12.35	1,417.12	146,396	1.58	14,814.91	1,033	32
33	VIRGINIA	5,080.91	12,453	1.00	12.31	24,528.17	148,160	2.19	2,194.40	1,079	33
34	WEST VIRGINIA	19,757.70	11,780	2.45	14.77	657.65	138,645	.11	456.43	607	34
35	**TOTALS**	**71,467.83**	**11,950**	**1.84**	**13.05**	**127,198.90**	**147,454**	**1.65**	**219,239.25**	**1,018**	**35**
	EAST SOUTH CENTRAL										
36	ALABAMA	16,285.60	11,588	2.37	14.40	316.61	138,411	.42	903.60	1,039	36
37	KENTUCKY	22,290.79	10,859	3.06	15.12	426.64	131,435	.13	10,955.01	1,024	37
38	MISSISSIPPI	517.60	12,074	2.36	10.77	3,156.81	142,298	1.16	92,122.84	1,037	38
39	TENNESSEE	17,154.70	11,012	2.58	15.84	198.83	137,812	.35	15,331.48	1,045	39
40	**TOTALS**	**56,248.69**	**11,128**	**2.71**	**15.09**	**4,098.89**	**140,649**	**.96**	**119,312.93**	**1,037**	**40**
	WEST SOUTH CENTRAL										
41	ARKANSAS					4,509.28	150,905	.88	67,918.46	1,018	41
42	LOUISIANA					1,069.34	139,904	.57	417,301.45	1,060	42
43	OKLAHOMA	1.11	12,444	1.54	10.30	88.56	145,189	.45	245,098.34	1,053	43
44	TEXAS	1,789.90	7,000	.60	10.40	1,805.53	143,801	.64	1,251,652.40	1,025	44
45	**TOTALS**	**1,791.01**	**7,003**	**.60**	**10.40**	**7,472.77**	**147,546**	**.77**	**1,981,970.65**	**1,035**	**45**
	MOUNTAIN										
46	ARIZONA	347.90	10,409	.40	9.36	1,239.35	143,092	.55	73,997.04	1,074	46
47	COLORADO	3,421.84	10,680	.54	9.11	431.63	149,388	1.13	63,189.27	880	47
48	IDAHO										48
49	MONTANA	769.20	7,765	.60	8.19	14.00	147,024	1.80	744.20	1,153	49
50	NEVADA	3,559.81	12,241	.41	9.72	117.93	150,551	.58	39,332.77	1,073	50
51	NEW MEXICO	6,893.20	9,017	.67	22.41	408.10	146,459	.84	45,083.20	1,053	51
52	UTAH	546.92	12,223	.51	7.11	1,252.69	150,423	.90	3,402.30	937	52
53	WYOMING	4,107.81	8,266	.58	8.47	14.73	139,107	.35	42.30	828	53
54	**TOTALS**	**19,646.68**	**9,799**	**.57**	**13.67**	**3,478.43**	**147,160**	**.79**	**225,791.08**	**1,013**	**54**
	PACIFIC										
55	CALIFORNIA					41,532.82	147,011	.42	601,241.14	1,061	55
56	OREGON					104.80	137,900	.20	1,259.30	1,034	56
57	WASHINGTON	2,002.00	8,100	.50	14.60	182.65	145,777	.59			57
58	**TOTALS**	**2,002.00**	**8,100**	**.50**	**14.60**	**41,820.27**	**146,983**	**.43**	**602,500.44**	**1,061**	**58**
	NON-CONTIGUOUS U.S.										
59	ALASKA										59
60	HAWAII					7,503.70	148,809	.88			60
61	PUERTO RICO					17,465.29	146,974	2.33			61
62	VIRGIN ISLANDS										62
63	**TOTALS**					**24,968.99**	**147,525**	**1.89**			**63**
64	**U.S. TOTALS**	**348,694.18**	**11,176**	**2.39**	**13.41**	**458,390.39**	**146,285**	**1.07**	**3,707,278.50**	**1,028**	**64**

TABLE 1-B

FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
1	ALABAMA AND TOMBIGBEE RIVERS										1
2	COLUMBUS-PHENIX CITY										2
3	EAST ALABAMA	364.10	11,844	1.13	11.53	4.00	137,376	.50	509.10	1,029	3
4	METROPOLITAN BIRMINGHAM	6,251.70	11,691	1.36	14.50	49.27	137,451	.50			4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	5,947.60	11,822	2.69	11.97	3,124.71	140,783	.99	90,852.76	1,037	5
6	SOUTHEAST ALABAMA										6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	6,354.40	11,290	3.36	15.74	57.34	138,431	.08			7
8	COOK INLET										8
9	NORTHERN ALASKA										9
10	SOUTH CENTRAL ALASKA										10
11	SOUTHEASTERN ALASKA										11
12	ARIZONA-NEW MEX. SOUTHERN BORDER					59.87	137,309	.41	5,530.32	1,075	12
13	CLARK-MOHAVE	3,559.81	12,241	.41	9.72	71.13	151,025	.45	27,165.07	1,082	13
14	FOUR CORNERS	7,241.10	9,084	.66	21.78				1,897.00	1,078	14
15	PHOENIX-TUCSON					1,169.48	143,311	.55	65,559.92	1,075	15
16	CENTRAL ARKANSAS					1,205.26	150,117	.78	27,939.49	1,014	16
17	METROPOLITAN FORT SMITH										17
18	METROPOLITAN MEMPHIS	1,374.70	11,096	3.32	11.17	1.60	136,700	.30	15,331.48	1,045	18
19	MONROE-EL DORADO					87.70	139,686	.46	28,741.70	1,006	19
20	NORTHEAST ARKANSAS					2,945.22	151,341	.92	29,975.53	1,025	20
21	NORTHWEST ARKANSAS					151.90	155,605	1.12	1,494.92	1,021	21
22	SHREVEPORT-TEXARKANA-TYLER					255.29	149,257	.73	135,668.11	1,017	22
23	GREAT BASIN VALLEY										23
24	METROPOLITAN LOS ANGELES					33,226.45	146,393	.41	281,394.23	1,054	24
25	NORTH CENTRAL COAST					992.03	151,020	.40	84,761.92	1,083	25
26	NORTH COAST					25.64	152,455	1.10	3,143.47	1,023	26
27	NORTHEAST PLATEAU										27
28	SACRAMENTO VALLEY										28
29	SAN DIEGO					5,047.00	148,968	.37	38,730.00	1,056	29
30	SAN FRANCISCO BAY AREA					1,605.63	149,770	.86	138,734.32	1,054	30
31	SAN JOAQUIN VALLEY								149.88	1,088	31
32	SOUTH CENTRAL COAST					470.55	150,020	.40	39,756.52	1,087	32
33	SOUTHEAST DESERT					165.51	151,158	1.22	14,570.80	1,076	33
34	COMANCHE										34
35	GRAND MESA	204.96	11,814	.62	10.77	.03	136,317	.19	2,470.75	857	35
36	METROPOLITAN DENVER	2,438.01	10,633	.52	8.11	417.94	149,500	1.15	45,437.02	853	36
37	PAWNEE										37
38	SAN ISABEL	203.47	10,012	.94	15.60	12.69	147,199	.53	15,281.50	964	38
39	SAN LUIS										39
40	YAMPA	575.40	10,713	.45	10.46	.97	130,000	.10			40
41	EASTERN CONNECTICUT					4,562.88	143,074	.89			41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	47.90	10,976	2.65	18.25	15,738.47	145,543	.76	3,979.80	1,000	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	198.27	12,007	1.25	13.58	109,004.15	145,149	.68	63,140.24	1,030	43
44	NORTHWESTERN CONNECTICUT										44
45	METROPOLITAN PHILADELPHIA	3,131.80	13,137	2.44	8.33	35,414.34	145,191	.67	12,438.92	1,026	45
46	SOUTHERN DELAWARE	909.30	12,559	1.71	10.97	51.50	139,828	.42	186.30	1,000	46
47	NATIONAL CAPITAL	3,730.77	12,592	1.47	11.62	10,249.63	146,839	1.54			47
48	CENTRAL FLORIDA					9,287.08	148,099	1.49	36,664.25	1,021	48
49	JACKSONVILLE-BRUNSWICK	10.40	11,360	1.80	14.50	12,068.19	147,765	1.76	9,870.50	1,056	49
50	SOUTHEAST FLORIDA					19,546.32	146,046	1.17	84,209.33	1,001	50
51	SOUTHWEST FLORIDA					4,978.00	146,957	1.27	1,540.00	1,040	51
52	WEST CENTRAL FLORIDA	3,349.72	11,141	3.67	12.55	17,660.52	148,858	2.25	8,557.40	1,041	52
53	AUGUSTA-AIKEN	587.37	12,419	1.48	12.18	1.12	138,260	.17	2,493.10	1,032	53
54	CENTRAL GEORGIA	3,389.00	12,057	1.22	11.49	8.70	136,000	.20	3,574.00	1,033	54
55	CHATTANOOGA	3,995.95	11,542	2.61	11.33	12.00	140,000	.10			55
56	METROPOLITAN ATLANTA	2,956.00	11,949	1.43	11.66				27,119.00	1,031	56
57	NORTHEAST GEORGIA										57
58	SAVANNAH-BEAUFORT	643.08	12,493	1.14	12.08	2,310.24	148,491	2.29	7,575.50	1,033	58
59	SOUTHWEST GEORGIA	585.30	11,465	1.59	15.47	3.00	136,000	.10			59
60	HAWAII (ENTIRE STATE)					7,503.70	148,809	.88			60
61	EASTERN IDAHO										61
62	EASTERN WASH.-NORTHERN IDAHO										62
63	IDAHO										63
64	METROPOLITAN BOISE										64
65	BURLINGTON-KEOKUK	3,723.52	10,445	2.77	8.53	952.71	151,275	.62	8,409.80	1,000	65
66	EAST CENTRAL	517.48	10,855	2.87	11.08	580.73	137,960	.21			66
67	METROPOLITAN CHICAGO	14,992.42	10,082	2.15	10.30	5,761.80	148,630	.77	44,832.29	1,030	67
68	METROPOLITAN DUBUQUE	876.00	10,993	3.47	11.09	4.57	140,000	.34	2,118.00	1,001	68
69	METROPOLITAN QUAD CITIES	1,081.20	10,718	2.88	9.92	162.50	137,267	.40	9,872.10	1,037	69
70	METROPOLITAN ST. LOUIS	8,345.40	10,971	3.06	13.13	1,779.43	149,775	2.13	4,049.20	1,039	70
71	NORTH CENTRAL ILLINOIS	856.90	10,988	2.32	9.50				3,194.50	1,039	71
72	PADUCAH-CAIRO	15,440.02	10,604	3.34	15.76	74.94	137,215	.22			72
73	ROCKFORD-JANESVILLE-BELOIT	708.20	11,167	2.11	10.47	2.30	140,000	.30	3,709.70	1,019	73
74	SOUTHEAST ILLINOIS	903.70	11,289	2.49	11.02	14.70	137,037	.30			74
75	WEST CENTRAL ILLINOIS	5,574.50	9,856	3.76	14.71	26.90	137,918	.37	123.30	987	75
76	EAST CENTRAL INDIANA										76
77	EVANSVILLE-OWENSBORO-HENDERSON	7,659.61	10,921	3.36	11.15	304.10	143,607	.12	4,505.71	1,012	77
78	LOUISVILLE	3,912.40	11,237	3.55	12.19	104.10	140,000	.31	10,402.30	1,025	78
79	METROPOLITAN CINCINNATI	6,337.26	10,867	3.34	15.63	157.50	137,333	.22	6,844.80	1,006	79
80	METROPOLITAN INDIANAPOLIS	1,647.60	11,196	2.50	9.60	86.60	137,357	.29	93.60	1,040	80
81	NORTHEAST INDIANA										81
82	SOUTH BEND-ELKHART-BENTON HARBOR	922.90	10,829	2.56	11.58	17.30	136,531	.10	3,792.33	1,000	82
83	SOUTHERN INDIANA	4,108.00	10,866	3.50	12.20						83
84	WABASH VALLEY	5,210.20	10,685	2.58	11.95	145.80	139,955	.30			84

TABLE 1-B

(Contd) - FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,200.50	11,052	2.00	9.57	55.50	137,340	.10	22,150.53	1,001	85
86	METROPOLITAN SIOUX CITY	688.98	9,734	.56	13.63	15.40	138,942	.50	6,356.05	989	86
87	METROPOLITAN SIOUX FALLS	52.55	10,373	2.12	9.76	249.37	151,784	1.30	2,233.95	1,002	87
88	NORTHEAST IOWA	994.40	10,556	2.50	8.70	23.71	140,887	.53	5,706.91	1,024	88
89	NORTH CENTRAL IOWA										89
90	NORTHWEST IOWA										90
91	SOUTHEAST IOWA										91
92	SOUTH CENTRAL IOWA	941.70	9,664	3.75	14.26	71.10	138,210	.40	19,802.20	1,004	92
93	SOUTHWEST IOWA										93
94	METROPOLITAN KANSAS CITY	2,503.53	11,276	2.84	11.19	281.15	146,917	1.57	55,194.51	966	94
95	NORTHEAST KANSAS	2,083.40	11,298	3.14	10.42	410.60	144,313	1.18	39,871.00	1,006	95
96	NORTH CENTRAL KANSAS					26.00	150,000	1.50	1,294.00	969	96
97	NORTHWEST KANSAS					4.96	151,000	.31	6,559.00	952	97
98	SOUTHEAST KANSAS	37.88	12,820	3.77	12.93	47.77	150,988	1.85	12,997.96	1,041	98
99	SOUTH CENTRAL KANSAS					146.45	149,240	1.25	67,625.50	997	99
100	SOUTHWEST KANSAS					37.30	148,761	.29	10,736.00	964	100
101	APPALACHIAN	68.09	11,701	1.66	15.36	1.16	132,000	.02			101
102	BLUEGRASS	1,654.19	11,763	2.11	13.57	53.77	139,753	.20			102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	12,018.50	11,452	2.10	13.98	426.30	131,511	.10			103
104	NORTH CENTRAL KENTUCKY										104
105	SOUTH CENTRAL KENTUCKY	823.48	11,670	2.15	14.14	2.47	138,600	.12			105
106	SOUTHERN LOUISIANA-SE TEXAS					1,072.94	139,965	.57	452,464.17	1,055	106
107	ANDROSCOGGIN VALLEY					1,764.00	147,750	2.08			107
108	ARDOSTOOK										108
109	DOWN EAST					581.70	148,928	2.01			109
110	METROPOLITAN PORTLAND					2,742.00	148,460	2.16			110
111	NORTHWEST MAINE										111
112	CENTRAL MARYLAND										112
113	CUMBERLAND-KEYSER	3,007.60	11,416	1.94	17.76	247.37	139,988	.10			113
114	EASTERN SHORE	35.00	12,793	1.18	11.19	1,599.00	146,000	.91			114
115	METROPOLITAN BALTIMORE	942.74	13,077	1.20	9.29	11,087.35	145,995	.88			115
116	SOUTHERN MARYLAND	613.60	12,713	2.07	14.19	7,640.90	148,248	1.92			116
117	BERKSHIRE										117
118	CENTRAL MASSACHUSETTS										118
119	METROPOLITAN BOSTON					20,166.70	146,120	.56	1,647.00	1,000	119
120	METROPOLITAN PROVIDENCE					23,688.12	146,748	.79	532.20	1,000	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	1,118.00	13,357	2.37	7.13	1,708.00	148,502	1.90			121
122	CENTRAL MICHIGAN	5,848.50	11,394	3.09	13.69	411.70	140,000	.32			122
123	METROPOLITAN DETROIT-PORT HURON	10,640.54	11,948	2.67	12.43	6,306.81	146,282	1.67	51,181.00	692	123
124	METROPOLITAN TOLEDO	4,162.80	12,024	2.38	13.04	1,133.98	139,617	.42	863.00	518	124
125	SOUTH CENTRAL MICHIGAN	1,061.82	12,182	2.71	12.15	924.36	149,515	.97	4,461.40	1,021	125
126	UPPER MICHIGAN	510.50	12,400	1.00	10.80	8.80	135,400	.10			126
127	CENTRAL MINNESOTA										127
128	SOUTHEAST MINNESOTA-LA CROSSE	1,366.26	9,984	3.12	18.50	434.20	150,976	2.64	2,847.25	1,003	128
129	DULUTH-SUPERIOR	1,284.90	8,584	1.08	9.75	43.50	137,000	1.54	472.60	1,007	129
130	METROPOLITAN FARGO-MOORHEAD										130
131	MINNEAPOLIS-ST. PAUL	3,534.07	10,168	2.44	11.53	291.73	140,153	.50	34,205.65	995	131
132	NORTHWEST MINNESOTA	715.05	7,238	1.00	5.89	131.08	138,013	.50	392.50	1,000	132
133	SOUTHWEST MINNESOTA	89.02	10,338	1.86	11.08	.77	137,000	.30	515.22	1,002	133
134	MISSISSIPPI DELTA					562.62	151,295	2.70	7,523.28	1,015	134
135	NORTHEAST MISSISSIPPI										135
136	NORTHERN PIEDMONT	829.23	11,974	.93	13.20	5.17	140,000	.10			136
137	NORTHERN MISSOURI	1,539.30	9,998	4.15	13.25						137
138	SOUTHEAST MISSOURI	317.10	9,817	4.03	16.73	5.40	140,000	.10			138
139	SOUTHWEST MISSOURI	2,575.47	9,822	5.17	23.44	6.80	138,060	.60	9,498.00	1,013	139
140	BILLINGS	449.00	8,654	.62	8.18	14.00	147,024	1.80	603.00	1,180	140
141	GREAT FALLS										141
142	HELENA										142
143	MILES CITY	320.20	6,517	.57	8.20				141.20	1,040	143
144	MISSOULA										144
145	LINCOLN-BEATRICE-FAIRBURY	266.91	12,279	3.93	13.17	9.70	156,600	2.00	7,581.27	1,002	145
146	NEBRASKA					26.70	150,000	.90	5,384.99	973	146
147	NEVADA										147
148	NORTHWEST NEVADA					56.80	150,244	.80	15,048.20	1,053	148
149	NEW HAMPSHIRE										149
150	NEW JERSEY	147.06	13,624	.60	5.60	2,836.56	138,586	.80			150
151	NE PENN.-UPPER DELAWARE VALLEY	2,769.40	11,957	1.80	13.72	1,376.98	144,126	.87	2,087.00	1,030	151
152	ALBUQUERQUE-MID RIO GRANDE					257.40	147,491	.81	15,628.50	1,102	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					124.80	146,628	.97	24,916.00	1,037	153
154	NORTHEASTERN PLAINS										154
155	PECOS-PERMIAN BASIN					31.30	138,000	.63	17,603.00	1,000	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN										156
157	UPPER RIO GRANDE VALLEY										157
158	CENTRAL NEW YORK	472.00	13,192	2.79	7.88	1,219.00	149,072	2.30			158
159	CHAMPLAIN VALLEY	33.00	12,873	1.46	11.95				591.70	1,000	159
160	GENESEE-FINGER LAKES	1,375.08	12,388	2.02	11.81	440.67	146,592	1.67	7.87	538	160
161	HUDSON VALLEY					9,366.00	148,200	1.96	78.00	1,016	161
162	NIAGARA FRONTIER	1,380.00	12,658	1.95	8.35						162
163	SOUTHERN TIER EAST	488.33	11,148	1.78	18.64	11.98	138,347	.15			163
164	SOUTHERN TIER WEST	2,234.33	12,110	2.34	14.05	15.71	137,811	.50			164
165	EASTERN MOUNTAIN	6,783.31	11,683	1.07	14.62	349.72	138,281	.24			165
166	EASTERN PIEDMONT	3,295.40	12,384	1.39	11.73	32.51	139,393	.08			166
167	METROPOLITAN CHARLOTTE	5,645.68	11,830	.99	13.63	951.09	138,470	.21	10,434.34	1,030	167
168	NORTHERN COASTAL PLAIN										168

TABLE 1-B

(Contd) - FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
169	SANDHILLS	230.60	12,738	1.00	9.58	7.28	137,891	.08	2,921.40	1,040	169
170	SOUTHERN COASTAL PLAIN	999.93	12,613	1.09	10.05	2,797.27	150,192	2.09	1,898.99	1,041	170
171	WESTERN MOUNTAIN	901.69	12,219	1.36	9.70	13.85	139,379	.08			171
172	NORTH DAKOTA	4,360.10	6,672	.74	7.72	29.00	140,000	.35			172
173	DAYTON	1,593.20	11,982	1.25	11.11	.40	140,000	.80	190.40	1,045	173
174	GREATER METROPOLITAN CLEVELAND	6,812.74	11,812	3.05	12.79	149.27	145,180	.51			174
175	MANSFIELD-MARION	45.60	12,000	3.10	10.00				13.14	1,000	175
176	METROPOLITAN COLUMBUS	299.89	11,190	4.19	13.52	8.11	138,870	.18	890.10	1,020	176
177	NORTHWEST OHIO	52.10	12,997	3.00	12.60	11.50	139,057	.10			177
178	NORTHWEST PENN.-YOUNGSTOWN	4,827.20	11,904	2.92	13.67	181.58	147,427	.69			178
179	PARKERSBURG-MARIETTA	5,392.30	10,477	4.76	18.86	38.25	136,733	.11			179
180	SANDUSKY	38.50	11,924	2.55	9.85						180
181	STEUBENVILLE-WEIRTON-WHEELING	15,032.10	11,529	3.16	14.68	264.30	137,667	.10			181
182	WILMINGTON-CHILLICOTHE-LOGAN										182
183	ZANESVILLE-CAMBRIDGE	1,949.90	10,540	4.68	17.29	8.40	136,825	.10			183
184	CENTRAL OKLAHOMA	.78	12,971	1.30	10.00	52.14	147,427	.10	77,921.42	1,034	184
185	NORTH CENTRAL OKLAHOMA	.33	11,200	2.10	11.00				1,443.57	1,037	185
186	NORTHEASTERN OKLAHOMA					14.83	138,805	.41	91,271.62	1,045	186
187	NORTHWESTERN OKLAHOMA								10,252.24	1,052	187
188	SOUTHEASTERN OKLAHOMA					6.51	137,634	.10	31,298.25	1,040	188
189	SOUTHWESTERN OKLAHOMA					15.08	146,988	1.83	32,911.24	1,133	189
190	CENTRAL OREGON										190
191	EASTERN OREGON										191
192	NORTHWEST OREGON										192
193	PORTLAND	2,002.00	8,100	.50	14.60	233.45	139,645	.25	1,259.30	1,034	193
194	SOUTHWEST OREGON										194
195	CENTRAL PENNSYLVANIA	2,890.40	12,338	2.22	12.79	245.42	137,635	.14			195
196	SOUTH CENTRAL PENNSYLVANIA	3,712.50	12,226	2.28	14.51	361.64	141,165	.39			196
197	SOUTHWEST PENNSYLVANIA	20,470.04	11,800	2.41	17.48	492.28	138,811	.30	25.98	1,050	197
198	CAMDEN-SUMTER										198
199	CHARLESTON	765.47	11,866	.99	12.96	1,102.00	148,745	1.97	3,791.40	1,033	199
200	COLUMBIA	1,932.21	12,348	1.44	12.10	74.07	138,014	.20	3,238.70	1,033	200
201	FLORENCE	247.48	12,562	1.03	10.52	21.50	138,416	.08	990.60	1,034	201
202	GREENVILLE-SPARTANBURG	1,076.76	11,889	1.13	13.44	10.62	140,000	.10	1,324.61	1,032	202
203	GREENWOOD					197.67	138,172	.25	1,041.90	1,032	203
204	GEORGETOWN	415.53	12,138	1.10	11.25						204
205	BLACK HILLS-RAPID CITY										205
206	SOUTH DAKOTA										206
207	EASTERN TENN.-SOUTHWESTERN VA.	10,888.60	11,277	1.67	16.88	107.70	137,764	.47			207
208	MIDDLE TENNESSEE	6,955.30	10,889	3.30	15.02	95.13	137,806	.19			208
209	WESTERN TENNESSEE										209
210	ABILENE-WICHITA FALLS					71.54	144,996	.58	88,136.24	1,027	210
211	AMARILLO-LUBBOCK					69.80	138,000	.72	76,074.60	1,003	211
212	AUSTIN-WACO	1,789.90	7,000	.60	10.40	362.59	143,919	.54	124,777.27	1,013	212
213	BROWNSVILLE-LAREDO					1.84	140,000	.70	35,713.00	1,045	213
214	CORPUS CHRISTI-VICTORIA					119.56	140,000	.70	60,780.00	1,031	214
215	METROPOLITAN DALLAS-FORT WORTH					739.91	145,225	.65	202,879.07	1,031	215
216	METROPOLITAN HOUSTON-GALVESTON					32.31	147,456	1.77	363,397.10	1,033	216
217	METROPOLITAN SAN ANTONIO					242.45	139,174	.60	61,823.91	1,023	217
218	MIDLAND-ODESSA-SAN ANGELO					20.40	143,158	.38	32,072.20	1,035	218
219	UTAH	386.89	12,193	.51	7.09	3.43	140,000	.60			219
220	WASATCH FRONT	160.03	12,295	.52	7.16	1,249.26	150,451	.90	3,402.30	937	220
221	VERMONT										221
222	CENTRAL VIRGINIA	35.61	13,350	.90	9.50	.97	134,000	.25	1,671.10	1,045	222
223	HAMPTON ROADS	813.70	12,991	2.07	6.12	5,669.30	147,759	2.08	523.30	1,186	223
224	NORTHEASTERN VIRGINIA	309.00	12,632	.92	10.73	20.20	140,000	.10			224
225	STATE CAPITAL					13,677.00	148,345	2.22			225
226	VALLEY OF VIRGINIA	891.40	12,154	.97	14.53	70.00	134,661	.11			226
227	NORTHERN WASHINGTON										227
228	OLYMPIA-NORTHWEST WASHINGTON										228
229	PUGET SOUND					54.00	157,000	1.30			229
230	SOUTH CENTRAL WASHINGTON										230
231	ALLEGHENY										231
232	CENTRAL WEST VIRGINIA										232
233	EASTERN PANHANDLE										233
234	KANAWHA VALLEY	4,709.20	12,195	1.10	12.72	124.80	137,055	.10	40.60	1,100	234
235	NORTH CENTRAL WEST VIRGINIA	4,171.60	12,076	2.70	14.70	25.91	139,000	.25	415.83	559	235
236	SOUTHERN WEST VIRGINIA										236
237	LAKE MICHIGAN	2,367.90	11,284	2.50	9.78	17.40	139,029	.30	328.30	1,029	237
238	NORTH CENTRAL WISCONSIN	282.50	11,947	3.18	9.99	3.10	139,000	.30	2,186.10	1,027	238
239	SOUTHEASTERN WISCONSIN	4,736.37	11,657	2.23	9.62	528.30	137,022	.43	10,176.19	1,027	239
240	SOUTHERN WISCONSIN	253.20	11,658	2.57	9.65	4.00	137,900	.30	4,426.50	1,005	240
241	CASPER	2,335.60	7,406	.60	11.10	12.50	138,947	.30			241
242	METROPOLITAN CHEYENNE										242
243	WYOMING	1,772.21	9,400	.55	5.00	2.23	140,000	.60	42.30	828	243
244	PUERTO RICO					17,465.29	146,974	2.33			244
245	AMERICAN SAMOA										245
246	GUAM										246
247	U. S. VIRGIN ISLANDS										247
	U.S. TOTALS	348,694.18	11,176	2.39	13.41	458,390.39	146,285	1.07	3,707,278.50	1,028	

TABLE 2-A

ESTIMATED ANNUAL EMISSIONS, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS) PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	LINE NO
	NEW ENGLAND						
1	CONNECTICUT	4,195.35	22,590.80	4.11	70.63	61.54	1
2	MAINE	418.45	2,753.80	.47	35.81	11.21	2
3	MASSACHUSETTS	7,418.24	28,758.50	2.40	104.97	101.15	3
4	NEW HAMPSHIRE	637.99	3,8T3.50	1.66	62.78	34.28	4
5	RHODE ISLAND	277.90	1,162.00	.10	7.59	5.54	5
6	VERMONT	3C.CO	79.4C	2.15	.92	.36	6
T	**TOTALS**	**12,9TT.93**	**S9,218.00**	**10.89**	**282.TO**	**214.08**	T
	MIDDLE ATLANTIC						
8	NEW JERSEY	7,045.80	30,960.90	4.13	83.92	106.93	8
9	NEW YORK	16,362.41	68,055.50	67.01	515.08	250.03	9
1C	PENNSYLVANIA	18,694.49	92,C79.5C	279.72	1,657.7.	49..72	1C
11	**TOTALS**	**42,102.70**	**191,09S.90**	**350.86**	**2,256.70**	**755.68**	11
	EAST NORTH CENTRAL						
12	ILLINOIS	19,598.96	78,078.52	75.56	1,559.91	481.38	12
13	INDIANA	11,441.63	55,856.9C	223.99	1,538.34	345.22	13
14	MICHIGAN	10,783.20	55,475.CC	141.45	1,125.05	232.88	14
15	OHIO	18,535.85	88,572.80	573.32	2,413.67	444.96	15
16	WISCONSIN	6,388.55	28,611.5C	53.99	5C7.93	139.48	16
1T	**TOTALS**	**66,T48.19**	**306,634.T2**	**1,068.31**	**7,144.90**	**1,643.92**	17
	WEST NORTH CENTRAL						
18	IOWA	2,516.65	11,888.30	70.22	216.69	65.03	18
19	KANSAS	3,337.18	14,838.60	15.27	33.67	36.96	19
2C	MINNESOTA	3,35C.15	17,C84.8C	37.27	216.96	71.87	2C
21	MISSCURI	8,191.24	3C,817.5C	21.97	85C.78	22C.79	21
22	NEBRASKA	1,326.75	5,529.2C	8.05	61.55	21.79	22
23	NORTH CAKCTA	768.5C	5,071.9C	44.27	62.83	68.28	23
24	SCUTH CAKCTA	123.CO	356.30	.62	2.33	1.42	24
2S	**TOTALS**	**19,613.47**	**8S,S86.60**	**19T.6T**	**1,444.81**	**486.14**	2S
	SOUTH ATLANTIC						
26	DELAWARE	897.30	5,340.80	2.65	101.76	24.66	26
27	DISTRICT OF COLUMBIA	1,148.40	2,643.40	2.00	16.74	11.53	27
28	FLORIDA	12,778.68	62,968.6C	32.36	7C5.46	251.88	28
29	GEORGIA	6,814.5C	29,599.20	42.76	398.71	16C.65	29
3C	MARYLANC	5,C12.2C	23,849.5C	16.54	133.6C	87.28	30
31	NORTH CARCLINA	8,652.C4	5C,720.30	165.90	426.92	183.C9	31
32	SCUTH CARCLINA	3,108.65	16,219.30	27.23	145.88	78.45	32
33	VIRGINIA	5,18C.36	27,851.7C	296.96	280.04	1C0.17	33
34	WEST VIRGINIA	9,740.68	48,137.60	23C.40	934.CC	219.99	34
35	**TOTALS**	**53,332.81**	**267,330.40**	**816.80**	**3,143.11**	**1,11T.70**	3S
	EAST SOUTH CENTRAL						
36	ALABAMA	8,534.99	37,665.93	440.64	756.97	172.76	36
37	KENTUCKY	9,589.80	49,638.67	111.12	1,343.80	334.87	37
38	MISSISSIPPI	2,984.28	11,4C4.40	1.82	36.14	29.55	38
39	TENNESSEE	8,743.65	4C,521.75	452.03	867.21	179.85	39
40	**TOTALS**	**29,852.72**	**139,230.7S**	**1,00S.61**	**3,004.12**	**T17.03**	40
	WEST SOUTH CENTRAL						
41	ARKANSAS	2,561.23	9,447.30	.76	10.98	23.20	41
42	LOUISIANA	8,563.22	39,609.66	1.02	29.70	94.48	42
43	CKLAHOMA	4,379.18	24,896.35	.08	.05	47.16	43
44	TEXAS	3C,663.33	125,815.7C	4.13	24.45	264.23	44
4S	**TOTALS**	**46,166.96**	**199,TT3.01**	**S.99**	**65.18**	**429.07**	4S
	MOUNTAIN						
46	ARIZONA	2,035.54	8,976.20	5.94	3.81	19.90	46
47	COLORADO	2,010.00	11,767.50	17.54	34.12	42.07	47
48	IDAHO						48
49	MONTANA	291.80	1,159.30	3.86	9.13	7.10	49
50	NEVADA	2,372.15	9,997.80	9.51	29.10	43.73	50
51	NEW MEXICO	3,340.20	14,109.70	76.72	95.72	82.65	51
52	UTAH	501.64	2,086.30	5.55	9.14	8.33	52
53	WYOMINC	1,465.20	6,539.30	16.98	19.11	37.01	53
54	**TOTALS**	**12,016.53**	**S4,636.10**	**136.10**	**200.13**	**240.T9**	54
	PACIFIC						
55	CALIFORNIA	21,763.66	92,090.52	6.61	59.36	208.69	55
56	OREGON	35.50	4.60	.02	.07	.48	56
57	WASHINCTCN	2,304.44	2,943.90	4.73	19.98	18.42	57
58	**TOTALS**	**24,103.60**	**9S,039.02**	**11.36**	**79.41**	**22T.S9**	58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	937.88	4,386.70	1.19	19.82	16.55	60
61	PUERTO RICO	2,007.80	8,975.70	2.91	140.24	38.23	61
62	VIRCIN ISLANOS						62
63	**TOTALS**	**2,945.68**	**13,362.40**	**4.10**	**160.06**	**S4.T8**	63
64	**U.S. TOTALS**	**309,860.59**	**1,411,906.90**	**3,607.69**	**17,781.12**	**5,886.78**	64

TABLE 2-B

ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	138.00	776.30	3.38	7.86	3.39	3
4	METROPOLITAN BIRMINGHAM	3,113.70	14,807.00	73.35	164.15	74.71	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	5,761.58	23,392.80	57.80	325.09	92.07	5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	3,374.49	14,245.43	218.88	419.01	50.32	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER	135.00	698.10			.74	12
13	CLARK-MOHAVE	2,105.85	8,720.40	7.50	28.98	41.25	13
14	FOUR CORNERS	2,383.40	10,594.80	82.33	97.30	65.54	14
15	PHOENIX-TUCSON	1,730.24	7,372.00	.24	1.05	15.39	15
16	CENTRAL ARKANSAS	1,016.25	3,653.00	.21	2.95	8.11	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	990.00	4,824.18	1.16	58.92	40.79	18
19	MONROE-EL DORADO	553.52	2,559.10	.08	.14	5.81	19
20	NORTHEAST ARKANSAS	1,161.64	4,762.90	.44	7.36	12.34	20
21	NORTHWEST ARKANSAS	59.84	223.10	.03	.57	.63	21
22	SHREVEPORT-TEXARKANA-TYLER	2,980.11	13,191.80	.04	.26	27.02	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	11,520.56	50,275.02	5.21	45.81	178.[illegible]	24
25	NORTH CENTRAL COAST	2,174.70	10,552.80	.17	1.33	18.72	25
26	NORTH COAST	162.40	247.50		.09	.57	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO	1,838.00	9,400.30	.34	6.19	18.68	29
30	SAN FRANCISCO BAY AREA	4,511.10	15,215.90	.28	4.64	30.59	30
31	SAN JOAQUIN VALLEY	165.50	3.30			.03	31
32	SOUTH CENTRAL COAST	1,056.30	4,804.20	.06	.63	8.79	32
33	SOUTHEAST DESERT	335.10	1,591.50	.03	.57	3.21	33
34	COMANCHE						34
35	GRAND MESA	109.50	562.90	2.59	2.52	2.21	35
36	METROPOLITAN DENVER	1,448.80	8,396.50	12.13	24.29	29.25	36
37	PAWNEE						37
38	SAN ISABEL	286.50	1,543.60	.77	2.80	5.43	38
39	SAN LUIS						39
40	YAMPA	163.20	1,264.50	2.35	4.51	5.16	40
41	EASTERN CONNECTICUT	1,238.90	5,553.80	.51	13.17	10.36	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	2,419.44	13,538.20	3.12	43.18	35.85	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	17,165.25	65,577.50	8.21	257.56	246.12	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	5,059.75	26,751.40	3.91	228.72	116.95	45
46	SOUTHERN DELAWARE	377.50	2,316.00	2.29	30.88	8.34	46
47	NATIONAL CAPITAL	3,468.50	15,124.70	11.21	114.73	54.73	47
48	CENTRAL FLORIDA	1,353.83	9,303.10	.69	45.77	27.63	48
49	JACKSONVILLE-BRUNSWICK	1,806.80	7,843.90	1.84	72.15	28.76	49
50	SOUTHEAST FLORIDA	3,582.97	19,860.50	.59	76.42	59.52	50
51	SOUTHWEST FLORIDA	619.80	3,231.60	.37	20.94	11.27	51
52	WEST CENTRAL FLORIDA	3,870.28	18,507.60	15.79	374.14	107.23	52
53	AUGUSTA-AIKEN	250.00	1,661.50	.47	16.69	9.30	53
54	CENTRAL GEORGIA	1,927.00	8,464.30	16.56	81.79	49.10	54
55	CHATTANOOGA	2,548.30	8,085.30	6.77	201.77	47.75	55
56	METROPOLITAN ATLANTA	1,536.00	9,143.10	13.58	86.39	48.90	56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	931.10	3,559.40	.26	15.23	16.26	58
59	SOUTHWEST GEORGIA	218.00	1,217.80	5.73	16.06	5.27	59
60	HAWAII (ENTIRE STATE)	937.88	4,386.70	1.19	19.82	16.55	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	2,779.00	8,031.60	23.82	205.31	60.41	65
66	EAST CENTRAL	212.30	1,076.10	6.34	29.38	5.85	66
67	METROPOLITAN CHICAGO	10,042.50	46,010.93	19.92	631.78	244.30	67
68	METROPOLITAN DUBUQUE	370.20	1,995.40	13.08	59.93	20.38	68
69	METROPOLITAN QUAD CITIES	2,214.99	5,752.00	15.58	61.26	15.65	69
70	METROPOLITAN ST. LOUIS	4,135.10	18,225.10	18.12	511.50	144.30	70
71	NORTH CENTRAL ILLINOIS	425.25	2,086.19	3.20	38.33	10.09	71
72	PADUCAH-CAIRO	5,671.45	33,418.67	50.66	1,014.39	259.37	72
73	ROCKFORD-JANESVILLE-BELOIT	346.00	1,746.80	2.79	29.35	14.32	73
74	SOUTHEAST ILLINOIS	379.60	1,911.50	5.55	44.34	8.19	74
75	WEST CENTRAL ILLINOIS	2,984.82	10,387.10	3.94	412.68	136.80	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	2,758.14	15,680.30	60.45	505.15	82.93	77
78	LOUISVILLE	2,310.00	9,285.80	4.26	272.93	37.48	78
79	METROPOLITAN CINCINNATI	3,017.55	12,277.80	117.53	407.30	79.90	79
80	METROPOLITAN INDIANAPOLIS	936.61	2,697.10	11.60	74.02	16.17	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	1,329.03	3,772.00	29.31	48.48	18.02	82
83	SOUTHERN INDIANA	1,304.00	9,529.60	12.70	281.81	61.62	83
84	WABASH VALLEY	2,813.85	10,905.20	57.12	263.58	54.85	84

TABLE 2-B

(Contd) - ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION 11,000 MWH)	ESTIMATED ANNUAL EMISSIONS 11,000 TONS)			AQCR NO
				PARTICULATES	SULFUR OIOXIDE	NITROGEN OXIDES	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,062.30	4,649.20	9.41	46.63	15.20	85
86	METROPOLITAN SIOUX CITY	536.25	1,978.10		.01	11.08	86
87	METROPOLITAN SIOUX FALLS	123.00	356.30	.62	2.33	1.42	87
88	NORTHEAST IOWA	500.90	2,044.00	17.37	45.25	15.00	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	586.80	3,072.00	28.95	69.35	14.56	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	2,578.72	9,524.70	6.23	135.71	53.68	94
95	NORTHEAST KANSAS	2,820.95	8,540.10	15.44	130.17	27.31	95
96	NORTH CENTRAL KANSAS	33.75	99.00		.13	.31	96
97	NORTHWEST KANSAS	119.13	591.90		.01	1.29	97
98	SOUTHEAST KANSAS	268.50	1,062.50	.69	3.04	2.69	98
99	SOUTH CENTRAL KANSAS	1,232.00	6,488.50	.01	.63	13.72	99
100	SOUTHWEST KANSAS	229.50	944.70	.01	.05	2.17	100
101	APPALACHIAN	37.50	119.00	1.61	2.22	.61	101
102	BLUEGRASS	1,023.00	3,643.80	28.61	67.59	15.01	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	5,119.00	29,585.30	122.86	497.57	127.40	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	354.00	1,892.60	11.18	34.86	7.42	105
106	SOUTHERN LOUISIANA-SE TEXAS	9,002.97	43,333.66	1.02	29.70	101.33	106
107	ANDROSCOGGIN VALLEY	147.00	830.10	.09	12.24	3.89	107
108	AROOSTOOK						108
109	DOWN EAST	57.45	285.40	.10	3.90	1.28	109
110	METROPOLITAN PORTLAND	214.00	1,638.30	.28	19.67	6.04	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,249.98	6,830.70	52.54	114.60	27.07	113
114	EASTERN SHORE	256.50	814.60	.85	5.56	3.79	114
115	METROPOLITAN BALTIMORE	2,081.10	8,536.30	7.27	54.83	35.54	115
116	SOUTHERN MARYLAND	1,251.00	6,900.50	1.52	24.89	22.37	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS						118
119	METROPOLITAN BOSTON	2,620.05	11,820.40	1.49	37.95	44.78	119
120	METROPOLITAN PROVIDENCE	4,470.70	15,076.90	.86	62.22	52.45	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	637.99	3,873.50	1.66	62.78	34.28	121
122	CENTRAL MICHIGAN	2,385.00	13,700.70	64.65	355.06	53.55	122
123	METROPOLITAN DETROIT-PORT HURON	5,324.00	29,758.90	48.35	592.02	135.81	123
124	METROPOLITAN TOLEDO	2,259.00	10,772.10	26.21	196.08	38.51	124
125	SOUTH CENTRAL MICHIGAN	804.50	2,992.60	2.47	59.07	17.24	125
126	UPPER MICHIGAN	249.70	1,481.40	2.67	6.96	4.83	126
127	CENTRAL MINNESOTA	568.80	3,558.60				127
128	SOUTHEAST MINNESOTA-LA CROSSE	1,082.60	5,265.60	27.82	87.63	13.72	128
129	DULUTH-SUPERIOR	388.60	1,863.70	13.48	26.65	11.70	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	2,034.75	10,010.00	20.99	166.24	50.78	131
132	NORTHWEST MINNESOTA	182.40	946.60	.98	13.81	6.75	132
133	SOUTHWEST MINNESOTA	46.00	184.50	1.33	3.14	.88	133
134	MISSISSIPPI DELTA	220.50	949.60	.09	5.10	2.71	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	290.00	1,942.20	.79	15.12	7.47	136
137	NORTHERN MISSOURI	470.00	3,194.50	1.66	125.51	42.33	137
138	SOUTHEAST MISSOURI	650.00	822.50	.11	24.86	8.73	138
139	SOUTHWEST MISSOURI	1,032.90	5,611.10	9.08	259.84	37.17	139
140	BILLINGS	241.80	818.50	.63	5.36	4.19	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	50.00	340.80	3.23	3.77	2.91	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	250.35	1,281.30	2.36	20.64	8.56	145
146	NEBRASKA	134.70	413.40		.08	1.11	146
147	NEVADA						147
148	NORTHWEST NEVADA	353.00	1,538.70	.01	.15	3.06	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	899.20	6,329.60	1.25	9.34	7.57	150
151	NE PENN.-UPPER DELAWARE VALLEY	1,413.30	6,859.30	28.51	141.06	33.67	151
152	ALBUQUERQUE-MID RIO GRANDE	335.00	1,605.10	.05	.70	14.58	152
153	EL PASO-LAS CRUCES-ALAMOGORDO	686.70	2,386.40	.02	.40	5.06	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN	333.90	1,676.10		.07	3.50	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	876.00	4,958.60	2.85	33.54	9.22	158
159	CHAMPLAIN VALLEY	30.00	79.40	2.15	.92	.36	159
160	GENESEE-FINGER LAKES	1,098.80	5,319.50	13.10	57.41	16.30	160
161	HUDSON VALLEY	931.91	5,850.40	.54	60.37	20.57	161
162	NIAGARA FRONTIER	828.00	3,449.50	6.62	52.31	16.13	162
163	SOUTHERN TIER EAST	205.75	897.80	12.65	17.08	6.08	163
164	SOUTHERN TIER WEST	968.00	5,348.60	25.65	100.64	23.38	164
165	EASTERN MOUNTAIN	2,781.00	17,834.50	21.15	142.76	67.00	165
166	EASTERN PIEDMONT	1,488.83	8,543.70	66.28	89.59	29.66	166
167	METROPOLITAN CHARLOTTE	2,439.00	15,034.20	55.99	109.87	51.66	167
168	NORTHERN COASTAL PLAIN						168

TABLE 2-B

(Contd) - ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
169	SANDHILLS	165.50	806.40	3.76	4.52	2.65	169
170	SOUTHERN COASTAL PLAIN	1,074.07	4,251.80	16.26	41.02	16.53	170
171	WESTERN MOUNTAIN	413.64	2,307.50	1.67	24.04	8.12	171
172	NORTH DAKOTA	768.50	5,071.90	44.27	62.63	68.76	172
173	DAYTON	992.40	3,539.00	25.15	41.48	14.77	173
174	GREATER METROPOLITAN CLEVELAND	3,501.37	15,480.50	26.43	411.51	66.10	174
175	MANSFIELD-MARION	25.00	65.10	.39	2.77	.41	175
176	METROPOLITAN COLUMBUS	274.25	550.00	19.57	24.43	3.51	176
177	NORTHWEST OHIO	37.50	78.90			.49	177
178	NORTHWEST PENN.-YOUNGSTOWN	1,975.20	10,477.40	37.10	276.20	55.71	178
179	PARKERSBURG-MARIETTA	1,976.60	11,439.90	138.31	498.34	89.85	179
180	SANDUSKY	31.33	51.20	.28	1.96	.33	180
181	STEUBENVILLE-WEIRTON-WHEELING	7,125.15	35,484.40	163.74	904.27	165.94	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	933.50	3,604.10	113.82	177.31	35.09	183
184	CENTRAL OKLAHOMA	1,480.53	8,168.70	.06	.02	15.33	184
185	NORTH CENTRAL OKLAHOMA	40.00	97.10	.02	.01	.29	185
186	NORTHEASTERN OKLAHOMA	1,376.65	8,900.15		.02	17.83	186
187	NORTHWESTERN OKLAHOMA	191.00	1,044.30			2.00	187
188	SOUTHEASTERN OKLAHOMA	723.50	3,233.50			6.11	188
189	SOUTHWESTERN OKLAHOMA	567.50	3,452.60			5.60	189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	1,391.94	5.60	4.74	19.81	18.78	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	1,349.38	6,472.00	[illegible]	129.1	[illegible]	195
196	SOUTH CENTRAL PENNSYLVANIA	1,736.43	9,184.50	[illegible]	[illegible]	[illegible]	196
197	SOUTHWEST PENNSYLVANIA	9,903.93	46,378.60	178.59	962.22	207.64	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	543.35	2,770.80	5.50	22.15	10.06	199
200	COLUMBIA	1,045.80	5,605.10	1.13	54.52	29.85	200
201	FLORENCE	206.60	595.80	4.43	5.00	2.42	201
202	GREENVILLE-SPARTANBURG	375.00	2,624.00	13.85	23.79	9.30	202
203	GREENWOOD	34.13	158.40	.03	.17	.54	203
204	GEORGETOWN	163.20	954.10	1.52	8.96	6.23	204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	4,425.75	26,054.43	566.17	359.11	97.35	207
208	MIDDLE TENNESSEE	4,040.40	15,128.04	156.51	447.56	60.34	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS	1,817.89	8,888.70	.01	.13	17.34	210
211	AMARILLO-LUBBOCK	1,540.87	7,073.00	.01	.17	15.17	211
212	AUSTIN-WACO	4,367.13	14,207.00	3.85	21.49	41.13	212
213	BROWNSVILLE-LAREDO	814.20	3,461.70			6.97	213
214	CORPUS CHRISTI-VICTORIA	1,660.70	6,087.70	.02	.28	12.12	214
215	METROPOLITAN DALLAS-FORT WORTH	6,008.69	19,674.50	.18	1.50	41.85	215
216	METROPOLITAN HOUSTON-GALVESTON	7,560.73	37,032.20		.18	70.88	216
217	METROPOLITAN SAN ANTONIO	2,321.64	6,117.60	.04	.35	12.59	217
218	MIDLAND-ODESSA-SAN ANGELO	536.40	3,192.80		.03	5.73	218
219	UTAH	166.00	826.90	5.02	3.80	3.49	219
220	WASATCH FRONT	335.64	1,259.40	.53	5.34	4.84	220
221	VERMONT						221
222	CENTRAL VIRGINIA	29.00	173.20			.55	222
223	HAMPTON ROADS	1,124.64	5,542.00	4.34	72.03	19.87	223
224	NORTHEASTERN VIRGINIA	284.28	754.20	8.39	5.63	2.78	224
225	STATE CAPITAL	1,586.94	8,210.10	.63	102.07	30.15	225
226	VALLEY OF VIRGINIA	437.00	2,235.00	9.63	17.16	8.17	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND	86.00	23.90	.01	.24	.12	229
230	SOUTH CENTRAL WASHINGTON	862.00	2,919.00				230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY	2,345.50	12,569.80	38.34	100.44	42.66	234
235	NORTH CENTRAL WEST VIRGINIA	2,289.00	10,209.20	36.89	221.13	38.94	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	1,917.10	8,103.40	6.42	115.29	49.96	237
238	NORTH CENTRAL WISCONSIN	135.00	811.30	.14	17.72	2.98	238
239	SOUTHEASTERN WISCONSIN	2,709.00	11,347.10	8.12	204.57	41.39	239
240	SOUTHERN WISCONSIN	195.50	880.30	3.01	12.91	3.26	240
241	CASPER	758.00	3,283.80			21.05	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	707.20	3,255.50	16.98	19.11	15.96	243
244	PUERTO RICO	2,007.80	8,975.70	2.91	140.24	38.23	244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	309,860.59	1,411,906.90	3,607.69	17,781.12	5,886.78	

TABLE 3-A

ASH AND SULFUR COLLECTION AND DISPOSAL, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		LINE NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
	NEW ENGLAND							
1	CONNECTICUT	8.10	.10					1
2	MAINE	.32	.02					2
3	MASSACHUSETTS	11.14	1.36					3
4	NEW HAMPSHIRE	78.00	61.50					4
5	RHODE ISLAND	.02	.02					5
6	VERMONT	3.90						6
7	**TOTALS**	**101.48**	**63.00**					7
	MIDDLE ATLANTIC							
8	NEW JERSEY	237.53	134.30					8
9	NEW YORK	815.27	16.89					9
10	PENNSYLVANIA	5,870.33	336.35					10
11	**TOTALS**	**6,923.13**	**487.54**					11
	EAST NORTH CENTRAL							
12	ILLINOIS	3,246.83	30.84					12
13	INDIANA	2,657.52	153.43					13
14	MICHIGAN	2,412.69	239.05					14
15	OHIO	5,809.45	554.30					15
16	WISCONSIN	1,042.30	93.60					16
17	**TOTALS**	**15,168.79**	**1,071.22**					17
	WEST NORTH CENTRAL							
18	IOWA	411.30	18.20					18
19	KANSAS	59.33						19
20	MINNESOTA	552.93	7.80					20
21	MISSOURI	1,773.86	214.00					21
22	NEBRASKA	109.94	29.69					22
23	NORTH DAKOTA	306.00	13.57					23
24	SOUTH DAKOTA	4.80						24
25	**TOTALS**	**3,218.16**	**283.26**					25
	SOUTH ATLANTIC							
26	DELAWARE	97.10	5.10					26
27	DISTRICT OF COLUMBIA	19.00						27
28	FLORIDA	880.45	383.62					28
29	GEORGIA	1,260.71	78.68					29
30	MARYLAND	575.74	15.14					30
31	NORTH CAROLINA	2,228.10	24.30					31
32	SOUTH CAROLINA	612.75	10.51					32
33	VIRGINIA	566.43	26.33					33
34	WEST VIRGINIA	2,846.94	267.89					34
35	**TOTALS**	**9,087.22**	**811.57**					35
	EAST SOUTH CENTRAL							
36	ALABAMA	1,958.50	27.50					36
37	KENTUCKY	3,199.69	90.20					37
38	MISSISSIPPI	57.00						38
39	TENNESSEE	2,647.60	79.40					39
40	**TOTALS**	**7,862.79**	**197.10**					40
	WEST SOUTH CENTRAL							
41	ARKANSAS							41
42	LOUISIANA							42
43	OKLAHOMA							43
44	TEXAS	185.90						44
45	**TOTALS**	**185.90**						45
	MOUNTAIN							
46	ARIZONA	27.80						46
47	COLORADO	335.54	2.21					47
48	IDAHO							48
49	MONTANA	57.20	11.50					49
50	NEVADA	421.05	8.21					50
51	NEW MEXICO	1,518.20						51
52	UTAH	34.30	1.20					52
53	WYOMING	313.40	10.10					53
54	**TOTALS**	**2,707.49**	**33.22**					54
	PACIFIC							
55	CALIFORNIA	2.01						55
56	OREGON							56
57	WASHINGTON	277.60						57
58	**TOTALS**	**279.61**						58
	NON-CONTIGUOUS U.S.							
59	ALASKA							59
60	HAWAII	.40						60
61	PUERTO RICO							61
62	VIRGIN ISLANDS							62
63	**TOTALS**	**.40**						63
64	**U.S. TOTALS**	**45,534.97**	**2,946.91**					64

TABLE 3-B

ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
1	ALABAMA AND TOMBIGBEE RIVERS							1
2	COLUMBUS-PHENIX CITY							2
3	EAST ALABAMA	40.30						3
4	METROPOLITAN BIRMINGHAM	740.70	27.30					4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	667.53	.20					5
6	SOUTHEAST ALABAMA							6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	808.80						7
8	COOK INLET							8
9	NORTHERN ALASKA							9
10	SOUTH CENTRAL ALASKA							10
11	SOUTHEASTERN ALASKA							11
12	ARIZONA-NEW MEX. SOUTHERN BORDER							12
13	CLARK-MOHAVE	421.05	8.21					13
14	FOUR CORNERS	1,546.00						14
15	PHOENIX-TUCSON							15
16	CENTRAL ARKANSAS							16
17	METROPOLITAN FORT SMITH							17
18	METROPOLITAN MEMPHIS	150.30	50.00					18
19	MONROE-EL DORADO							19
20	NORTHEAST ARKANSAS							20
21	NORTHWEST ARKANSAS							21
22	SHREVEPORT-TEXARKANA-TYLER							22
23	GREAT BASIN VALLEY							23
24	METROPOLITAN LOS ANGELES	2.01						24
25	NORTH CENTRAL COAST							25
26	NORTH COAST							26
27	NORTHEAST PLATEAU							27
28	SACRAMENTO VALLEY							28
29	SAN DIEGO							29
30	SAN FRANCISCO BAY AREA							30
31	SAN JOAQUIN VALLEY							31
32	SOUTH CENTRAL COAST							32
33	SOUTHEAST DESERT							33
34	COMANCHE							34
35	GRAND MESA	21.45						35
36	METROPOLITAN DENVER	226.83	2.21					36
37	PAWNEE							37
38	SAN ISABEL	28.76						38
39	SAN LUIS							39
40	YAMPA	58.50						40
41	EASTERN CONNECTICUT							41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	10.94	1.12					42
43	NEW JERSEY-NEW YORK-CONNECTICUT	9.46	.99					43
44	NORTHWESTERN CONNECTICUT							44
45	METROPOLITAN PHILADELPHIA	291.06	51.13					45
46	SOUTHERN DELAWARE	92.00						46
47	NATIONAL CAPITAL	435.70						47
48	CENTRAL FLORIDA	.10						48
49	JACKSONVILLE-BRUNSWICK	1.61	.11					49
50	SOUTHEAST FLORIDA	.30	.50					50
51	SOUTHWEST FLORIDA							51
52	WEST CENTRAL FLORIDA	638.11	383.01					52
53	AUGUSTA-AIKEN	72.25	10.36					53
54	CENTRAL GEORGIA	379.50	3.90					54
55	CHATTANOOGA	448.81	14.78					55
56	METROPOLITAN ATLANTA	345.60	60.00					56
57	NORTHEAST GEORGIA							57
58	SAVANNAH-BEAUFORT	74.71						58
59	SOUTHWEST GEORGIA	85.30						59
60	HAWAII (ENTIRE STATE)	.40						60
61	EASTERN IDAHO							61
62	EASTERN WASH.-NORTHERN IDAHO							62
63	IDAHO							63
64	METROPOLITAN BOISE							64
65	BURLINGTON-KEOKUK	320.91	8.84					65
66	EAST CENTRAL	48.90						66
67	METROPOLITAN CHICAGO	1,505.00	80.10					67
68	METROPOLITAN DUBUQUE	80.10						68
69	METROPOLITAN QUAD CITIES	71.30	.90					69
70	METROPOLITAN ST. LOUIS	1,081.90	149.00					70
71	NORTH CENTRAL ILLINOIS	83.50						71
72	PADUCAH-CAIRO	2,316.71	50.70					72
73	ROCKFORD-JANESVILLE-BELOIT	72.40	27.40					73
74	SOUTHEAST ILLINOIS	99.30						74
75	WEST CENTRAL ILLINOIS	767.32						75
76	EAST CENTRAL INDIANA							76
77	EVANSVILLE-OWENSBORO-HENDERSON	827.20						77
78	LOUISVILLE	454.50	39.50					78
79	METROPOLITAN CINCINNATI	796.23	10.43					79
80	METROPOLITAN INDIANAPOLIS	149.28	25.30					80
81	NORTHEAST INDIANA							81
82	SOUTH BEND-ELKHART-BENTON HARBOR	74.30	15.90					82
83	SOUTHERN INDIANA	493.30	14.00					83
84	WABASH VALLEY	466.71	8.70					84

TABLE 3-B

(Contd) - ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF AC10		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	106.70	17.50					85
86	METROPOLITAN SIOUX CITY	93.90						86
87	METROPOLITAN SIOUX FALLS	4.80						87
88	NORTHEAST IOWA	70.10						88
89	NORTH CENTRAL IOWA							89
90	NORTHWEST IOWA							90
91	SOUTHEAST IOWA							91
92	SOUTH CENTRAL IOWA	106.80	17.30					92
93	SOUTHWEST IOWA							93
94	METROPOLITAN KANSAS CITY	279.32						94
95	NORTHEAST KANSAS	215.60						95
96	NORTH CENTRAL KANSAS							96
97	NORTHWEST KANSAS							97
98	SOUTHEAST KANSAS	4.37						98
99	SOUTH CENTRAL KANSAS							99
100	SOUTHWEST KANSAS							100
101	APPALACHIAN	8.84						101
102	BLUEGRASS	183.20						102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	1,577.80	237.09					103
104	NORTH CENTRAL KENTUCKY							104
105	SOUTH CENTRAL KENTUCKY	97.94						105
106	SOUTHERN LOUISIANA-SE TEXAS							106
107	ANDROSCOGGIN VALLEY	.10						107
108	AROOSTOOK							108
109	DOWN EAST							109
110	METROPOLITAN PORTLAND	.22	.02					110
111	NORTHWEST MAINE							111
112	CENTRAL MARYLAND							112
113	CUMBERLAND-KEYSER	484.24	.94					113
114	EASTERN SHORE	4.00						114
115	METROPOLITAN BALTIMORE	125.10	14.20					115
116	SOUTHERN MARYLAND	87.00						116
117	BERKSHIRE							117
118	CENTRAL MASSACHUSETTS							118
119	METROPOLITAN BOSTON	.71	.05					119
120	METROPOLITAN PROVIDENCE	.53	.21					120
121	MERRIMACK VALLEY-SOUTHERN N.H.	78.00	61.50					121
122	CENTRAL MICHIGAN	801.40	94.20					122
123	METROPOLITAN DETROIT-PORT HURON	1,141.99	135.00					123
124	METROPOLITAN TOLEDO	533.70	.20					124
125	SOUTH CENTRAL MICHIGAN	132.00	9.65					125
126	UPPER MICHIGAN	45.70						126
127	CENTRAL MINNESOTA							127
128	SOUTHEAST MINNESOTA-LA CROSSE	217.40	10.80					128
129	DULUTH-SUPERIOR	116.33						129
130	METROPOLITAN FARGO-MOORHEAD							130
131	MINNEAPOLIS-ST. PAUL	388.00						131
132	NORTHWEST MINNESOTA	36.30	7.80					132
133	SOUTHWEST MINNESOTA	8.30						133
134	MISSISSIPPI DELTA							134
135	NORTHEAST MISSISSIPPI							135
136	NORTHERN PIEDMONT	105.20	.30					136
137	NORTHERN MISSOURI	200.00						137
138	SOUTHEAST MISSOURI	80.80						138
139	SOUTHWEST MISSOURI	587.90	87.00					139
140	BILLINGS	35.70	6.60					140
141	GREAT FALLS							141
142	HELENA							142
143	MILES CITY	21.50	4.90					143
144	MISSOULA							144
145	LINCOLN-BEATRICE-FAIRBURY	21.64	12.19					145
146	NEBRASKA							146
147	NEVADA							147
148	NORTHWEST NEVADA							148
149	NEW HAMPSHIRE							149
150	NEW JERSEY	137.27	119.97					150
151	NE PENN.-UPPER DELAWARE VALLEY	415.90	85.90					151
152	ALBUQUERQUE-MID RIO GRANDE							152
153	EL PASO-LAS CRUCES-ALAMOGORDO							153
154	NORTHEASTERN PLAINS							154
155	PECOS-PERMIAN BASIN							155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN							156
157	UPPER RIO GRANDE VALLEY							157
158	CENTRAL NEW YORK	35.80						158
159	CHAMPLAIN VALLEY	3.90						159
160	GENESEE-FINGER LAKES	159.60	12.10					160
161	HUDSON VALLEY	4.09						161
162	NIAGARA FRONTIER	161.10	3.90					162
163	SOUTHERN TIER EAST	96.50						163
164	SOUTHERN TIER WEST	356.90						164
165	EASTERN MOUNTAIN	913.10	18.40					165
166	EASTERN PIEDMONT	324.10						166
167	METROPOLITAN CHARLOTTE	695.90	5.60					167
168	NORTHERN COASTAL PLAIN							168

TABLE 3-B

(Contd) - ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO.	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO.
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
169	SANDHILLS	18.50						169
170	SOUTHERN COASTAL PLAIN	84.40						170
171	WESTERN MOUNTAIN	85.90						171
172	NORTH DAKOTA	306.00	13.57					172
173	DAYTON	157.90						173
174	GREATER METROPOLITAN CLEVELAND	1,120.90	6.80					174
175	MANSFIELD-MARION	4.50						175
176	METROPOLITAN COLUMBUS	25.65						176
177	NORTHWEST OHIO							177
178	NORTHWEST PENN.-YOUNGSTOWN	645.10	72.40					178
179	PARKERSBURG-MARIETTA	863.10	14.50					179
180	SANDUSKY	4.00						180
181	STEUBENVILLE-WEIRTON-WHEELING	2,100.34	375.10					181
182	WILMINGTON-CHILLICOTHE-LOGAN							182
183	ZANESVILLE-CAMBRIDGE	394.00	74.00					183
184	CENTRAL OKLAHOMA							184
185	NORTH CENTRAL OKLAHOMA							185
186	NORTHEASTERN OKLAHOMA							186
187	NORTHWESTERN OKLAHOMA							187
188	SOUTHEASTERN OKLAHOMA							188
189	SOUTHWESTERN OKLAHOMA							189
190	CENTRAL OREGON							190
191	EASTERN OREGON							191
192	NORTHWEST OREGON							192
193	PORTLAND	277.60						193
194	SOUTHWEST OREGON							194
195	CENTRAL PENNSYLVANIA	371.50						195
196	SOUTH CENTRAL PENNSYLVANIA	524.50	.90					196
197	SOUTHWEST PENNSYLVANIA	3,959.23	217.85					197
198	CAMDEN-SUMTER							198
199	CHARLESTON	95.55						199
200	COLUMBIA	157.34	.45					200
201	FLORENCE	21.90						201
202	GREENVILLE-SPARTANBURG	144.20						202
203	GREENWOOD							203
204	GEORGETOWN	45.80						204
205	BLACK HILLS-RAPID CITY							205
206	SOUTH DAKOTA							206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,890.90	39.20					207
208	MIDDLE TENNESSEE	882.40	.10					208
209	WESTERN TENNESSEE							209
210	ABILENE-WICHITA FALLS							210
211	AMARILLO-LUBBOCK							211
212	AUSTIN-WACO	185.90						212
213	BROWNSVILLE-LAREDO							213
214	CORPUS CHRISTI-VICTORIA							214
215	METROPOLITAN DALLAS-FORT WORTH							215
216	METROPOLITAN HOUSTON-GALVESTON							216
217	METROPOLITAN SAN ANTONIO							217
218	MIDLAND-ODESSA-SAN ANGELO							218
219	UTAH	23.00	1.20					219
220	WASATCH FRONT	11.30						220
221	VERMONT							221
222	CENTRAL VIRGINIA	3.00						222
223	HAMPTON ROADS	50.10						223
224	NORTHEASTERN VIRGINIA	25.00						224
225	STATE CAPITAL	.40						225
226	VALLEY OF VIRGINIA	121.63	16.43					226
227	NORTHERN WASHINGTON							227
228	OLYMPIA-NORTHWEST WASHINGTON							228
229	PUGET SOUND							229
230	SOUTH CENTRAL WASHINGTON							230
231	ALLEGHENY							231
232	CENTRAL WEST VIRGINIA							232
233	EASTERN PANHANDLE							233
234	KANAWHA VALLEY	650.50	40.20					234
235	NORTH CENTRAL WEST VIRGINIA	629.30	1.10					235
236	SOUTHERN WEST VIRGINIA							236
237	LAKE MICHIGAN	215.60	27.50					237
238	NORTH CENTRAL WISCONSIN	18.00	3.90					238
239	SOUTHEASTERN WISCONSIN	472.10	24.00					239
240	SOUTHERN WISCONSIN	16.60						240
241	CASPER	238.10	10.10					241
242	METROPOLITAN CHEYENNE							242
243	WYOMING	75.30						243
244	PUERTO RICO							244
245	AMERICAN SAMOA							245
246	GUAM							246
247	U. S. VIRGIN ISLANDS							247
	U.S. TOTALS	45,534.97	2,946.91					

TABLE 4-A

AIR QUALITY CONTROL EXPENSES, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		LINE NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
	NEW ENGLAND						
1	CONNECTICUT	651.79	186.83	3.10			1
2	MAINE			1.20			2
3	MASSACHUSETTS	593.42	120.62	14.00			3
4	NEW HAMPSHIRE	143.00	104.50	80.20			4
5	RHODE ISLAND	60.05	15.00	4.73			5
6	VERMONT	45.00	45.00				6
7	TOTALS	1,493.26	471.95	103.23			7
	MIDDLE ATLANTIC						
8	NEW JERSEY	187.90	187.90	37.50			8
9	NEW YORK	3,039.37	2,228.57	527.37			9
10	PENNSYLVANIA	12,282.84	10,392.10	107.40			10
11	TOTALS	15,510.11	12,808.57	672.27			11
	EAST NORTH CENTRAL						
12	ILLINOIS	10,840.34	7,587.95	27.58	132.00		12
13	INDIANA	4,444.21	3,763.10	41.30	7.00		13
14	MICHIGAN	4,976.28	2,853.72	391.80			14
15	OHIO	8,516.10	7,990.50	157.45			15
16	WISCONSIN	3,413.00	3,268.30	33.50	144.70		16
17	TOTALS	32,189.93	25,463.57	651.63	283.70		17
	WEST NORTH CENTRAL						
18	IOWA	788.40	763.90	.20			18
19	KANSAS	404.43	329.43		75.00		19
20	MINNESOTA	644.80	618.10	53.90			20
21	MISSOURI	9,617.05	1,809.14	296.00			21
22	NEBRASKA	127.11	127.10	3.02			22
23	NORTH DAKOTA	205.50	180.40	34.40			23
24	SOUTH DAKOTA	34.00	34.00				24
25	TOTALS	11,821.29	3,862.07	387.52	75.00		25
	SOUTH ATLANTIC						
26	DELAWARE	64.60	57.60	20.60			26
27	DISTRICT OF COLUMBIA	125.61	125.61				27
28	FLORIDA	1,495.94	1,452.14	643.48			28
29	GEORGIA	1,494.36	1,393.20	10.06			29
30	MARYLAND	3,283.60	2,808.60	10.74			30
31	NORTH CAROLINA	1,341.78	1,274.28	37.30			31
32	SOUTH CAROLINA	305.66	305.63	20.57			32
33	VIRGINIA	1,147.70	1,101.80	1.63			33
34	WEST VIRGINIA	1,565.50	1,490.20	.80			34
35	TOTALS	10,824.75	10,009.06	745.18			35
	EAST SOUTH CENTRAL						
36	ALABAMA	2,245.60	2,240.90	20.20			36
37	KENTUCKY	3,429.17	3,429.17	71.00			37
38	MISSISSIPPI	67.32	61.00				38
39	TENNESSEE	2,072.00	2,072.00	79.19			39
40	TOTALS	7,814.09	7,803.07	170.39			40
	WEST SOUTH CENTRAL						
41	ARKANSAS						41
42	LOUISIANA						42
43	OKLAHOMA						43
44	TEXAS	.07					44
45	TOTALS	.07					45
	MOUNTAIN						
46	ARIZONA	10.50	8.50				46
47	COLORADO	698.91	667.70	6.26			47
48	IDAHO						48
49	MONTANA	46.90	38.50	21.40			49
50	NEVADA	1,327.22	298.22	19.97			50
51	NEW MEXICO	2,162.90	2,162.90				51
52	UTAH	131.60	131.60	6.10			52
53	WYOMING	188.50	237.00	32.90			53
54	TOTALS	4,566.53	3,544.42	86.63			54
	PACIFIC						
55	CALIFORNIA	11.60	11.60				55
56	OREGON	176.00					56
57	WASHINGTON						57
58	TOTALS	187.60	11.60				58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	18.00	18.00				60
61	PUERTO RICO	103.32					61
62	VIRGIN ISLANDS						62
63	TOTALS	121.32	18.00				63
64	U.S. TOTALS	84,528.95	63,992.31	2,816.85	358.70		64

TABLE 4-B

AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	64.00	63.50				3
4	METROPOLITAN BIRMINGHAM	548.10	545.70	20.00			4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	1,061.90	1,041.20	.20			5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	1,190.00	1,190.00				7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER						12
13	CLARK-MOHAVE	1,327.22	298.22	19.97			13
14	FOUR CORNERS	2,173.40	2,171.40				14
15	PHOENIX-TUCSON						15
16	CENTRAL ARKANSAS						16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	242.00	242.00	20.00			18
19	MONROE-EL DORADO						19
20	NORTHEAST ARKANSAS						20
21	NORTHWEST ARKANSAS						21
22	SHREVEPORT-TEXARKANA-TYLER						22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	7,206.96	11.60				24
25	NORTH CENTRAL COAST	11.6					25
26	NORTH COAST						26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO						29
30	SAN FRANCISCO BAY AREA						30
31	SAN JOAQUIN VALLEY						31
32	SOUTH CENTRAL COAST						32
33	SOUTHEAST DESERT						33
34	COMANCHE						34
35	GRAND MESA	116.83	116.83				35
36	METROPOLITAN DENVER	508.18	499.87	6.26			36
37	PAWNEE						37
38	SAN ISABEL	27.00	9.10				38
39	SAN LUIS						39
40	YAMPA	45.30	41.90				40
41	EASTERN CONNECTICUT	101.30					41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	414.21	106.75	1.10			42
43	NEW JERSEY-NEW YORK-CONNECTICUT	714.80	197.20	505.70			43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	338.10	391.10	41.30			45
46	SOUTHERN DELAWARE	50.00	50.00				46
47	NATIONAL CAPITAL	2,951.51	2,449.01				47
48	CENTRAL FLORIDA	154.90	154.90	6.60			48
49	JACKSONVILLE-BRUNSWICK	80.60	80.60	29.50			49
50	SOUTHEAST FLORIDA	191.10	191.10	37.80			50
51	SOUTHWEST FLORIDA	71.50	71.50	5.00			51
52	WEST CENTRAL FLORIDA	501.04	476.14	564.58			52
53	AUGUSTA-AIKEN	11.30	11.35	20.12			53
54	CENTRAL GEORGIA	519.40	519.40	.39			54
55	CHATTANOOGA	295.50	278.00	3.67			55
56	METROPOLITAN ATLANTA	354.20	354.20	6.00			56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	127.24	48.57				58
59	SOUTHWEST GEORGIA	184.00	179.00				59
60	HAWAII (ENTIRE STATE)	18.00	18.00				60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	580.86	580.86	13.38			65
66	EAST CENTRAL	45.40	45.40				66
67	METROPOLITAN CHICAGO	6,435.49	5,691.99	13.60	139.00		67
68	METROPOLITAN DUBUQUE	81.90	81.90				68
69	METROPOLITAN QUAD CITIES	164.20	164.20				69
70	METROPOLITAN ST. LOUIS	8,510.80	709.80	211.20			70
71	NORTH CENTRAL ILLINOIS	138.50	138.50				71
72	PADUCAH-CAIRO	2,596.30	2,596.30	23.00			72
73	ROCKFORD-JANESVILLE-BELOIT	203.00	203.00	10.00			73
74	SOUTHEAST ILLINOIS	172.40	172.40				74
75	WEST CENTRAL ILLINOIS	1,589.60	1,556.60				75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	691.80	691.80	.50			77
78	LOUISVILLE	482.80	482.80	48.00			78
79	METROPOLITAN CINCINNATI	124.00	82.00	.50			79
80	METROPOLITAN INDIANAPOLIS	282.20	282.20	22.10			80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	85.70	56.10				82
83	SOUTHERN INDIANA	855.00	815.00	5.00			83
84	WABASH VALLEY	735.60	735.60	.10			84

TABLE 4-B

(Contd) - AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	144.58	144.57	1.80			85
86	METROPOLITAN SIOUX CITY	105.00	105.00				86
87	METROPOLITAN SIOUX FALLS	34.00	34.00				87
88	NORTHEAST IOWA	174.30	174.30				88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	252.30	228.40	.20			92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	1,115.41	986.41	3.00			94
95	NORTHEAST KANSAS	3,179.50	179.20		75.00		95
96	NORTH CENTRAL KANSAS						96
97	NORTHWEST KANSAS						97
98	SOUTHEAST KANSAS	8.50	8.50				98
99	SOUTH CENTRAL KANSAS						99
100	SOUTHWEST KANSAS						100
101	APPALACHIAN	6.62	6.62				101
102	BLUEGRASS	7.71	7.71				102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	1,095.00	1,049.00	84.00			103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	370.74	370.74				105
106	SOUTHERN LOUISIANA-SE TEXAS						106
107	ANDROSCOGGIN VALLEY						107
108	ARDOSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND			1.20			110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,098.10	1,022.80	.94			113
114	EASTERN SHORE	20.00	20.00				114
115	METROPOLITAN BALTIMORE	410.90	410.90	9.80			115
116	SOUTHERN MARYLAND	699.60	699.60				116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS						118
119	METROPOLITAN BOSTON	20.60	10.60	2.00			119
120	METROPOLITAN PROVIDENCE	508.05	98.80	16.73			120
121	MERRIMACK VALLEY-SOUTHERN N.H.	143.00	104.50	80.20			121
122	CENTRAL MICHIGAN	895.10	873.30	96.20			122
123	METROPOLITAN DETROIT-PORT HURON	3,334.58	1,592.82	275.00			123
124	METROPOLITAN TOLEDO	972.80	679.70	.30			124
125	SOUTH CENTRAL MICHIGAN	277.20	185.20	20.30			125
126	UPPER MICHIGAN	55.00	55.00				126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	456.10	311.40	5.70	144.70		128
129	DULUTH-SUPERIOR	55.80	54.10				129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	522.00	497.00	17.20			131
132	NORTHWEST MINNESOTA	33.80	33.80	36.70			132
133	SOUTHWEST MINNESOTA	20.00	20.00				133
134	MISSISSIPPI DELTA	6.32					134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	54.00	54.00	.50			136
137	NORTHERN MISSOURI	143.00	140.00				137
138	SOUTHEAST MISSOURI	47.57	47.56				138
139	SOUTHWEST MISSOURI	536.70	516.70	96.00			139
140	BILLINGS	16.50	16.50	16.50			140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	30.40	22.00	4.90			143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	20.23	20.23	1.22			145
146	NEBRASKA						146
147	NEVADA						147
148	NORTHWEST NEVADA						148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	23.90	23.90	26.80			150
151	NE PENN.-UPPER DELAWARE VALLEY	727.00	727.00	46.70			151
152	ALBUQUERQUE-MID RIO GRANDE						152
153	EL PASO-LAS CRUCES-ALAMOGORDO						153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN						155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	3.08	3.08				158
159	CHAMPLAIN VALLEY	45.00	45.00				159
160	GENESEE-FINGER LAKES	419.70	340.70	18.67			160
161	HUDSON VALLEY	350.00	130.00				161
162	NIAGARA FRONTIER	400.80	400.80	5.00			162
163	SOUTHERN TIER EAST	387.89	238.89				163
164	SOUTHERN TIER WEST	1,024.20	1,024.20				164
165	EASTERN MOUNTAIN	245.88	245.88	36.70			165
166	EASTERN PIEDMONT	236.00	236.00				166
167	METROPOLITAN CHARLOTTE	415.00	410.50				167
168	NORTHERN COASTAL PLAIN						168

TABLE 4-B

(Contd) - AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
169	SANDHILLS	68.00	68.00				169
170	SOUTHERN COASTAL PLAIN	230.00	167.00				170
171	WESTERN MOUNTAIN	92.90	92.90				171
172	NORTH DAKOTA	205.50	180.40	34.40			172
173	DAYTON	418.50	412.50				173
174	GREATER METROPOLITAN CLEVELAND	3,058.10	3,056.70	4.30			174
175	MANSFIELD-MARION	400.00					175
176	METROPOLITAN COLUMBUS	96.50	96.50				176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	1,774.40	1,639.40	18.20			178
179	PARKERSBURG-MARIETTA	183.20	183.20				179
180	SANDUSKY	23.00	22.70				180
181	STEUBENVILLE-WEIRTON-WHEELING	1,676.90	1,675.10	29.70			181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	381.50	377.50	20.75			183
184	CENTRAL OKLAHOMA						184
185	NORTH CENTRAL OKLAHOMA						185
186	NORTHEASTERN OKLAHOMA						186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA						188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	176.00					193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	398.60	396.60				195
196	SOUTH CENTRAL PENNSYLVANIA	720.00	681.00	.60			196
197	SOUTHWEST PENNSYLVANIA	9,037.54	7,322.80	50.10			197
198	CAMDEN-SUMTER						198
199	CHARLESTON	36.77	36.77				199
200	COLUMBIA	63.45	63.44	.45			200
201	FLORENCE	33.00	33.00				201
202	GREENVILLE-SPARTANBURG	92.80	92.80				202
203	GREENWOOD						203
204	GEORGETOWN	21.70	21.70				204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,065.00	1,065.00	59.00			207
208	MIDDLE TENNESSEE	765.00	765.00	.19			208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS						210
211	AMARILLO-LUBBOCK						211
212	AUSTIN-WACO						212
213	BROWNSVILLE-LAREDO	.07					213
214	CORPUS CHRISTI-VICTORIA						214
215	METROPOLITAN DALLAS-FORT WORTH						215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO						217
218	MIDLAND-ODESSA-SAN ANGELO						218
219	UTAH	75.20	76.20	6.10			219
220	WASATCH FRONT	55.40	55.40				220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	301.60	288.20				223
224	NORTHEASTERN VIRGINIA	43.00	38.00				224
225	STATE CAPITAL	68.50	68.60				225
226	VALLEY OF VIRGINIA	6.50	6.60	1.63			226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY						234
235	NORTH CENTRAL WEST VIRGINIA	451.30	451.30	.80			235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	273.00	273.00	6.90			237
238	NORTH CENTRAL WISCONSIN	14.80	14.80	2.70			238
239	SOUTHEASTERN WISCONSIN	2,486.70	2,486.70	8.20			239
240	SOUTHERN WISCONSIN	65.00	65.00				240
241	CASPER	121.10	169.60	32.90			241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	67.40	67.40				243
244	PUERTO RICO	103.32					244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	84,528.95	63,992.31	2,816.85	358.70		

TABLE 5-A

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	INSTALLED COSTS ($1,000) MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	LINE NO
	NEW ENGLAND						
1	CONNECTICUT	280.00	6,045.79	2,384.00		2,776.86	1
2	MAINE	260.70		187.00		670.80	2
3	MASSACHUSETTS	151.40	14,195.60	344.00	4,000.00	5,577.88	3
4	NEW HAMPSHIRE		766.00	332.00		867.90	4
5	RHODE ISLAND	281.00	256.80			320.20	5
6	VERMONT	54.00				24.00	6
7	**TOTALS**	**1,027.10**	**21,264.19**	**3,247.00**	**4,000.00**	**10,237.64**	7
	MIDDLE ATLANTIC						
8	NEW JERSEY	485.50	10,881.80	3,994.60		6,367.90	8
9	NEW YORK	4,655.71	14,925.36	30,077.20		20,863.12	9
10	PENNSYLVANIA	1,310.15	32,901.16	23,737.40		22,301.77	10
11	**TOTALS**	**6,451.36**	**58,708.32**	**57,809.20**		**49,532.79**	11
	EAST NORTH CENTRAL						
12	ILLINOIS	2,120.40	65,844.81	980.00	21,800.00	21,017.54	12
13	INDIANA	1,464.60	27,554.15	5,036.60		11,695.46	13
14	MICHIGAN	3,832.20	38,327.80	15,374.20		12,075.30	14
15	OHIO	2,483.00	38,698.20	12,822.20		38,110.10	15
16	WISCONSIN	599.30	15,798.00		300.00	5,469.40	16
17	**TOTALS**	**10,499.50**	**186,222.96**	**34,213.00**	**22,100.00**	**88,367.80**	17
	WEST NORTH CENTRAL						
18	IOWA	1,679.70	7,402.00			2,589.30	18
19	KANSAS	535.91	842.00			2,118.59	19
20	MINNESOTA	765.90	6,590.00			4,598.98	20
21	MISSOURI	677.10	19,476.96	961.20		16,096.14	21
22	NEBRASKA	1,202.50	647.00	776.00		1,047.92	22
23	NORTH DAKOTA	576.10				632.90	23
24	SOUTH DAKOTA	36.00				284.00	24
25	**TOTALS**	**5,473.21**	**34,957.96**	**1,737.20**		**27,367.83**	25
	SOUTH ATLANTIC						
26	DELAWARE	253.00	200.00	996.00		1,232.00	26
27	DISTRICT OF COLUMBIA	322.00	116.00	1,925.00		520.00	27
28	FLORIDA	2,262.40	4,987.00			10,293.10	28
29	GEORGIA	161.40	4,875.00			6,315.20	29
30	MARYLAND	2,370.00	13,362.00	3,035.00		11,455.00	30
31	NORTH CAROLINA	1,335.40	38,449.00	7,794.00		5,460.02	31
32	SOUTH CAROLINA	628.84	7,686.61			2,541.45	32
33	VIRGINIA	1,472.00	7,130.00	3,676.00		2,576.50	33
34	WEST VIRGINIA	1,009.00	28,229.00	673.00		22,230.00	34
35	**TOTALS**	**9,818.04**	**105,034.61**	**18,099.00**		**62,623.27**	35
	EAST SOUTH CENTRAL						
36	ALABAMA	3,115.91	21,962.10	2,429.90		7,842.00	36
37	KENTUCKY	1,144.67	18,265.60	8,696.30		11,732.06	37
38	MISSISSIPPI		393.50			542.89	38
39	TENNESSEE	1,242.40	15,552.50	7,933.00		7,691.50	39
40	**TOTALS**	**5,502.98**	**56,173.70**	**19,059.20**		**27,808.45**	40
	WEST SOUTH CENTRAL						
41	ARKANSAS					894.65	41
42	LOUISIANA					1,578.10	42
43	OKLAHOMA					1,054.80	43
44	TEXAS		3,451.00			6,177.60	44
45	**TOTALS**		**3,451.00**			**9,705.15**	45
	MOUNTAIN						
46	ARIZONA	72.10				902.03	46
47	COLORADO	534.66	579.00	5,900.06		2,403.66	47
48	IDAHO						48
49	MONTANA	49.00	1,030.00			351.20	49
50	NEVADA	93.00				489.00	50
51	NEW MEXICO	359.40	8,344.00			530.75	51
52	UTAH	173.88		680.75		484.81	52
53	WYOMING	11,100.33	814.00			1,872.91	53
54	**TOTALS**	**12,382.37**	**10,767.00**	**6,580.81**		**7,034.36**	54
	PACIFIC						
55	CALIFORNIA	2,631.00			1,343.00	33,965.18	55
56	OREGON					41.40	56
57	WASHINGTON					400.00	57
58	**TOTALS**	**2,631.00**			**1,343.00**	**34,406.58**	58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	54.25				987.79	60
61	PUERTO RICO						61
62	VIRGIN ISLANDS						62
63	**TOTALS**	**54.25**				**987.79**	63
64	**U.S. TOTALS**	**53,839.81**	**476,579.74**	**140,745.41**	**27,443.00**	**318,071.66**	64

TABLE 5-B

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA		567.60			11.00	3
4	METROPOLITAN BIRMINGHAM	1,072.00	9,400.00			3,604.00	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	1,357.01	6,222.50			3,815.39	5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	792.90	8,428.50	2,429.90		1,827.00	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER						12
13	CLARK-MOHAVE	93.00				348.00	13
14	FOUR CORNERS	431.50	8,344.00			513.40	14
15	PHOENIX-TUCSON					728.03	15
16	CENTRAL ARKANSAS					245.00	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS		8,298.00				18
19	MONROE-EL DORADO					165.25	19
20	NORTHEAST ARKANSAS					517.23	20
21	NORTHWEST ARKANSAS					29.00	21
22	SHREVEPORT-TEXARKANA-TYLER					924.96	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	2,631.00				4,678.78	24
25	NORTH CENTRAL COAST				830.00	8,060.00	25
26	NORTH COAST					498.00	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO					189.00	29
30	SAN FRANCISCO BAY AREA				513.00	15,682.00	30
31	SAN JOAQUIN VALLEY					684.00	31
32	SOUTH CENTRAL COAST					4,108.00	32
33	SOUTHEAST DESERT					65.40	33
34	COMANCHE						34
35	GRAND MESA	288.30		275.83		431.20	35
36	METROPOLITAN DENVER	161.16		5,357.93		1,405.36	36
37	PAWNEE						37
38	SAN ISABEL	85.20		266.30		352.10	38
39	SAN LUIS						39
40	YAMPA		579.00			215.00	40
41	EASTERN CONNECTICUT		539.00			931.00	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	280.00	3,587.94	1,182.00		1,442.13	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	3,646.12	10,297.07	32,516.60		21,740.89	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	1,499.50	6,514.20	7,513.00		3,227.60	45
46	SOUTHERN DELAWARE			996.00		686.00	46
47	NATIONAL CAPITAL	322.00	4,171.00	3,594.00		2,156.00	47
48	CENTRAL FLORIDA	666.10				3,036.90	48
49	JACKSONVILLE-BRUNSWICK					950.20	49
50	SOUTHEAST FLORIDA	1,490.30				2,096.20	50
51	SOUTHWEST FLORIDA					236.30	51
52	WEST CENTRAL FLORIDA		2,724.00			3,041.00	52
53	AUGUSTA-AIKEN	98.05	1,196.75			214.18	53
54	CENTRAL GEORGIA					1,083.00	54
55	CHATTANOOGA		4,875.00			4,986.00	55
56	METROPOLITAN ATLANTA						56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	453.59	1,677.04			509.59	58
59	SOUTHWEST GEORGIA						59
60	HAWAII (ENTIRE STATE)	54.25				987.79	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	38.00	6,281.91			8,203.84	65
66	EAST CENTRAL	224.60				282.90	66
67	METROPOLITAN CHICAGO	9.00	35,838.95		15,000.00	7,408.00	67
68	METROPOLITAN DUBUQUE	241.50				256.40	68
69	METROPOLITAN QUAD CITIES	168.90	1,896.00			515.00	69
70	METROPOLITAN ST. LOUIS	447.00	11,644.00	980.00	6,800.00	5,074.00	70
71	NORTH CENTRAL ILLINOIS	219.00	3,118.00			405.00	71
72	PADUCAH-CAIRO	1,526.45	18,482.00	8,050.60		3,689.11	72
73	ROCKFORD-JANESVILLE-BELOIT	166.00	179.00			456.00	73
74	SOUTHEAST ILLINOIS		3,256.00			178.10	74
75	WEST CENTRAL ILLINOIS	164.80	9,317.90			3,059.40	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	518.00	3,826.60	1,363.80		4,211.80	77
78	LOUISVILLE		11,451.00			4,384.00	78
79	METROPOLITAN CINCINNATI	140.00	3,424.00	1,162.00		3,956.00	79
80	METROPOLITAN INDIANAPOLIS	542.20	1,273.20	928.50		786.46	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	153.40	726.00			236.00	82
83	SOUTHERN INDIANA			3,390.00		2,886.00	83
84	WABASH VALLEY	276.00	6,522.00			1,330.00	84

TABLE 5-B

(Contd) - INSTALLED COSTS OF AIR POLLTUION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000) MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	AQCR NO
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,220.50	647.00	776.00		1,097.80	85
86	METROPOLITAN SIOUX CITY		4,051.00			572.50	86
87	METROPOLITAN SIOUX FALLS	36.00				284.00	87
88	NORTHEAST IOWA	456.80	1,088.00			439.10	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	671.00				533.00	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	897.10	3,336.00	961.20		3,707.11	94
95	NORTHEAST KANSAS	170.00	1,738.00			8,094.00	95
96	NORTH CENTRAL KANSAS					31.30	96
97	NORTHWEST KANSAS					69.00	97
98	SOUTHEAST KANSAS	145.91				250.97	98
99	SOUTH CENTRAL KANSAS					347.40	99
100	SOUTHWEST KANSAS					75.00	100
101	APPALACHIAN	19.96				11.85	101
102	BLUEGRASS	323.26	727.00			1,229.30	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON		7,473.00	2,675.00		12,869.00	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	170.00				107.00	105
106	SOUTHERN LOUISIANA-SE TEXAS					1,975.40	106
107	ANDROSCOGGIN VALLEY	79.90		187.00		237.90	107
108	AROOSTOOK						108
109	DOWN EAST					42.40	109
110	METROPOLITAN PORTLAND	180.80				390.50	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	180.00	6,338.00			754.00	113
114	EASTERN SHORE	134.00				86.00	114
115	METROPOLITAN BALTIMORE	2,056.00	6,104.00	3,035.00		7,051.00	115
116	SOUTHERN MARYLAND		3,448.00			3,123.00	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS						118
119	METROPOLITAN BOSTON		6,613.20		4,000.00	3,044.58	119
120	METROPOLITAN PROVIDENCE	432.40	7,205.20			1,875.50	120
121	MERRIMACK VALLEY-SOUTHERN N.H.		766.00	332.00		867.90	121
122	CENTRAL MICHIGAN	454.10	8,558.60			1,632.00	122
123	METROPOLITAN DETROIT-PORT HURON	2,923.00	16,955.00	15,374.20		6,023.50	123
124	METROPOLITAN TOLEDO	216.50	9,071.80	1,617.20		4,145.30	124
125	SOUTH CENTRAL MICHIGAN	119.60	1,584.20			1,132.80	125
126	UPPER MICHIGAN	119.00	4,481.00			175.00	126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	121.90	811.00		300.00	954.28	128
129	DULUTH-SUPERIOR	246.00				656.00	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	158.40	4,640.00			3,416.00	131
132	NORTHWEST MINNESOTA	292.40	1,950.00			148.70	132
133	SOUTHWEST MINNESOTA	52.00				169.00	133
134	MISSISSIPPI DELTA					60.00	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	93.00	3,693.00			57.98	136
137	NORTHERN MISSOURI		702.00			749.00	137
138	SOUTHEAST MISSOURI		1,786.00			1,143.00	138
139	SOUTHWEST MISSOURI		2,046.96			1,280.95	139
140	BILLINGS		1,030.00			308.00	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	49.00				43.20	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	169.00				173.20	145
146	NEBRASKA					82.92	146
147	NEVADA						147
148	NORTHWEST NEVADA					141.00	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY		901.30			347.60	150
151	NE PENN.-UPPER DELAWARE VALLEY		3,432.00	3,921.00		1,231.80	151
152	ALBUQUERQUE-MID RIO GRANDE					17.80	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					153.00	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN					55.55	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	341.30				222.90	158
159	CHAMPLAIN VALLEY	54.00				24.00	159
160	GENESEE-FINGER LAKES	98.99	2,260.90	197.00		753.21	160
161	HUDSON VALLEY	317.10	2,973.00			824.00	161
162	NIAGARA FRONTIER			1,417.80		1,730.10	162
163	SOUTHERN TIER EAST	106.90	330.54			148.17	163
164	SOUTHERN TIER WEST	257.30	5,700.00	832.40		1,762.78	164
165	EASTERN MOUNTAIN	222.00	14,365.00	3,612.00		2,090.24	165
166	EASTERN PIEDMONT	571.50				709.50	166
167	METROPOLITAN CHARLOTTE		19,866.00	1,094.00		756.60	167
168	NORTHERN COASTAL PLAIN						168

TABLE 5-B

(Contd) - INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1972

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
169	SANDHILLS	90.60					169
170	SOUTHERN COASTAL PLAIN	362.30		2,580.00		78.40	170
171	WESTERN MOUNTAIN		525.00	508.00		1,262.10 505.20	171
172	NORTH DAKOTA	576.10					172
173	DAYTON	444.00	2,685.00	1,334.00		632.90 451.00	173
174	GREATER METROPOLITAN CLEVELAND	68.00	8,367.40	3,425.00		5,178.80	174
175	MANSFIELD-MARION		450.00				175
176	METROPOLITAN COLUMBUS	180.00				10.00 165.00	176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	172.00	2,804.96	2,156.00		1,878.18	178
179	PARKERSBURG-MARIETTA	759.00	407.00	1,885.00		1,697.00	179
180	SANDUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	553.00	24,268.00	724.00		24,138.00	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	287.00				788.00	183
184	CENTRAL OKLAHOMA					627.70	184
185	NORTH CENTRAL OKLAHOMA					24.30	185
186	NORTHEASTERN OKLAHOMA					265.10	186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA						188
189	SOUTHWESTERN OKLAHOMA					137.70	189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND					291.40	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	34.65	2,388.00	4,016.30		1,698.79	195
196	SOUTH CENTRAL PENNSYLVANIA		3,914.00	1,035.00		1,457.00	196
197	SOUTHWEST PENNSYLVANIA	402.50	20,603.20	5,750.10		14,802.50	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	52.00	354.00			685.74	199
200	COLUMBIA		2,319.82			877.72	200
201	FLORENCE	89.60				105.60	201
202	GREENVILLE-SPARTANBURG	97.00	1,716.00			56.82	202
203	GREENWOOD						203
204	GEORGETOWN		423.00			338.00	204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	465.40	3,367.00	2,409.00		3,185.00	207
208	MIDDLE TENNESSEE	960.00	3,887.50	5,524.00		4,967.50	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS					158.06	210
211	AMARILLO-LUBBUCK					218.06	211
212	AUSTIN-WACO		3,451.00			1,379.12	212
213	BROWNSVILLE-LAREDO					345.90	213
214	CORPUS CHRISTI-VICTORIA					857.60	214
215	METROPOLITAN DALLAS-FORT WORTH					1,334.58	215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO					278.72	217
218	MIDLAND-ODESSA-SAN ANGELO					186.50	218
219	UTAH	173.88				119.89	219
220	WASATCH FRONT						220
221	VERMONT			680.75		364.92	221
222	CENTRAL VIRGINIA	28.00				19.50	222
223	HAMPTON ROADS	682.00	877.00	1,579.00		574.00	223
224	NORTHEASTERN VIRGINIA	356.00				166.00	224
225	STATE CAPITAL	16.00	4,414.00	428.00		829.00	225
226	VALLEY OF VIRGINIA	207.00					226
227	NORTHERN WASHINGTON					27.00	227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON					150.00	230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY		10,080.00			6,946.00	234
235	NORTH CENTRAL WEST VIRGINIA	889.00	6,146.00	673.00		5,548.00	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN		2,657.00			795.00	237
238	NORTH CENTRAL WISCONSIN		3,077.00			56.00	238
239	SOUTHEASTERN WISCONSIN		9,253.00			3,037.00	239
240	SOUTHERN WISCONSIN	381.00				277.00	240
241	CASPER	10,784.00				991.00	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	316.33	814.00			881.91	243
244	PUERTO RICO						244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	53,839.81	476,579.74	140,745.41	27,443.00	318,071.66	

TABLE 6-A

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
	NEW ENGLAND											
1	CONNECTICUT	4	1,875.25	5	1,659.60					1	660.50	1
2	MAINE	1	57.45	2	361.00							2
3	MASSACHUSETTS	5	642.84	11	6,127.40					2	648.00	3
4	NEW HAMPSHIRE			1	178.75					1	459.24	4
5	RHODE ISLAND			2	277.90							5
6	VERMONT	1	30.00									6
7	TOTALS	11	2,605.54	21	8,604.65					4	1,767.74	7
	MIDDLE ATLANTIC											
8	NEW JERSEY	3	1,269.40	13	5,776.40							8
9	NEW YORK	14	4,908.46	17	11,453.95							9
10	PENNSYLVANIA	32	10,268.14	1	476.75			4	5,510.70	4	2,438.90	10
11	TOTALS	49	16,446.00	31	17,707.10			4	5,510.70	4	2,438.90	11
	EAST NORTH CENTRAL											
12	ILLINOIS	27	13,361.20			3	2,947.46	2	212.30	2	3,078.00	12
13	INDIANA	18	9,543.02							4	1,898.61	13
14	MICHIGAN	24	10,397.20							1	386.00	14
15	OHIO	29	16,680.42			2	68.83	1	232.00	1	1,529.60	15
16	WISCONSIN	18	6,388.55									16
17	TOTALS	116	56,370.39			5	3,016.29	3	444.30	8	6,892.21	17
	WEST NORTH CENTRAL											
18	IOWA	11	1,837.65			1	92.20	3	261.80	1	325.00	18
19	KANSAS	5	683.63					7	2,014.45	3	639.10	19
20	MINNESOTA	10	1,559.39							4	1,790.76	20
21	MISSOURI	11	6,373.34			2	1,033.10	3	377.30	2	407.50	21
22	NEBRASKA	4	973.90					2	260.35	1	92.50	22
23	NORTH DAKOTA	3	512.00			1	256.50					23
24	SOUTH DAKOTA							2	123.00			24
25	TOTALS	44	11,939.91			4	1,381.80	17	3,036.90	11	3,254.86	25
	SOUTH ATLANTIC											
26	DELAWARE	1	389.80	2	470.00			1	37.50			26
27	DISTRICT OF COLUMBIA	1	305.00							1	843.40	27
28	FLORIDA	12	1,988.30	18	9,397.35			2	149.08	2	1,243.95	28
29	GEORGIA	6	3,681.00	3	585.50			1	1,595.00	1	953.00	29
30	MARYLAND	2	696.00	7	4,059.70					1	256.50	30
31	NORTH CAROLINA	5	4,729.00			3	2,153.11			4	1,769.93	31
32	SOUTH CAROLINA	3	970.60	1	97.75	1	206.60	1	34.10	5	1,799.60	32
33	VIRGINIA	8	3,343.22	3	1,124.64			1	712.50			33
34	WEST VIRGINIA	8	3,499.00					4	5,101.20	1	1,140.48	34
35	TOTALS	46	19,601.92	34	15,734.94	4	2,359.71	10	7,629.38	15	8,006.86	35
	EAST SOUTH CENTRAL											
36	ALABAMA	10	8,534.99									36
37	KENTUCKY	11	5,009.30					3	1,828.30	2	2,752.20	37
38	MISSISSIPPI	2	1,405.23	1	637.35			3	338.00	2	603.70	38
39	TENNESSEE	8	8,743.65									39
40	TOTALS	31	23,693.17	1	637.35			6	2,166.30	4	3,355.90	40
	WEST SOUTH CENTRAL											
41	ARKANSAS	5	1,975.98					3	585.25			41
42	LOUISIANA	8	4,454.57	2	1,177.50	2	447.00	9	2,000.87	1	483.28	42
43	OKLAHOMA	2	235.90			1	567.00	8	2,548.80	3	1,027.48	43
44	TEXAS	7	2,017.12	3	1,808.50	24	14,127.99	29	5,842.38	11	6,887.34	44
45	TOTALS	22	8,683.57	5	2,986.00	27	15,141.99	49	10,977.30	15	8,378.10	45
	MOUNTAIN											
46	ARIZONA					1	113.60	8	1,783.94	2	138.00	46
47	COLORADO					1	261.75	4	1,277.50	6	450.75	47
48	IDAHO											48
49	MONTANA	3	291.80									49
50	NEVADA					1	220.00	4	2,019.15	1	133.00	50
51	NEW MEXICO					1	2,269.80	6	1,026.10	1	44.30	51
52	UTAH	2	84.00					2	417.64			52
53	WYOMING							1	707.20	1	758.00	53
54	TOTALS	5	375.80			4	2,885.15	25	7,231.53	11	1,524.05	54
	PACIFIC											
55	CALIFORNIA			22	16,506.95			14	3,227.81	1	2,028.90	55
56	OREGON	1	35.50									56
57	WASHINGTON	3	974.64					1	1,329.80			57
58	TOTALS	4	1,010.14	22	16,506.95			15	4,557.61	1	2,028.90	58
	NON-CONTIGUOUS U.S.											
59	ALASKA											59
60	HAWAII			3	542.88					1	395.00	60
61	PUERTO RICO			3	2,007.80							61
62	VIRGIN ISLANDS											62
63	TOTALS			6	2,550.68					1	395.00	63
64	U.S. TOTALS	328	140,726.44	120	64,727.67	44	24,784.94	129	41,554.02	74	38,042.52	64

TABLE 6-B

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY WATER RESOURCE REGION, 1972

LINE NO	WATER RESOURCE REGION	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
1	NEW ENGLAND	11	2,605.54	24	10,613.19					4	1,767.74	1
2	MIDDLE ATLANTIC	37	12,930.55	40	21,352.90			2	860.20	6	2,951.26	2
3	SOUTH ATLANTIC - GULF	34	16,636.03	23	10,717.55	3	1,946.07	6	2,050.18	12	5,766.48	3
4	GREAT LAKES	62	28,105.30			2	68.83			1	396.00	4
5	OHIO	69	35,345.62					13	12,061.80	8	7,908.41	5
6	TENNESSEE	10	9,389.94			1	413.64	1	712.50			6
7	UPPER MISSISSIPPI	48	16,093.49			4	3,039.66	3	261.80	5	4,488.06	7
8	LOWER MISSISSIPPI	14	9,218.31	2	1,177.50			10	2,107.37	3	1,086.98	8
9	SOURIS - RED - RAINY	1	116.10							1	136.90	9
10	MISSOURI	23	4,742.02			4	1,571.35	9	2,213.00	5	1,462.35	10
11	ARKANSAS - WHITE - RED	6	2,432.24			7	2,396.50	24	5,843.32	9	2,628.75	11
12	TEXAS - GULF	7	2,017.12	2	1,547.50	19	11,558.69	18	3,691.66	10	5,985.82	12
13	RIO GRANDE							12	2,103.45	1	44.30	13
14	UPPER COLORADO					1	2,269.80	2	329.20	2	109.50	14
15	LOWER COLORADO					1	113.60	11	2,283.09	2	138.00	15
16	GREAT BASIN	2	84.00			1	220.00	3	2,478.84	1	133.00	16
17	COLUMBIA - NORTH PACIFIC	4	1,010.14					1	1,329.80			17
18	CALIFORNIA - SOUTH PACIFIC			22	16,506.95			14	3,227.81	2	2,085.15	18
19	**TOTALS - CONTIGUOUS U.S.**	328	140,726.44	113	61,915.99	43	23,598.14	129	41,554.02	72	37,078.72	19
20	ALASKA									1	568.80	20
21	HAWAII			3	542.88					1	395.00	21
22	PUERTO RICO			3	2,007.80							22
23	**TOTALS - NON-CONTIGUOUS U.S.**			7	2,811.68	1	1,186.80			2	963.80	23
24	**TOTALS - UNITED STATES**	328	140,726.44	120	64,727.67	44	24,784.94	129	41,554.02	74	38,042.52	24

TABLE 7-A

AVERAGE COOLING WATER USE, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
	NEW ENGLAND									
1	CONNECTICUT	2,713.00	3,464.65	2,017.50	2,859.64			2,017.50	2,859.64	1
2	MAINE	107.00	513.70	85.00	361.17		.19	85.00	360.98	2
3	MASSACHUSETTS	1,833.90	6,185.89	1,632.30	4,310.20	.40		1,631.90	4,310.20	3
4	NEW HAMPSHIRE	416.00	245.00	444.00	252.40	8.60		435.40	252.40	4
5	RHODE ISLAND		759.00		650.00				662.00	5
6	VERMONT	68.10		39.30		.80		38.50		6
7	**TOTALS**	**5,138.00**	**11,168.24**	**4,218.10**	**8,433.41**	**9.80**	**.19**	**4,208.30**	**8,445.22**	7
	MIDDLE ATLANTIC									
8	NEW JERSEY	1,985.60	9,578.88	2,041.00	7,672.00			2,041.00	7,672.00	8
9	NEW YORK	7,446.30	18,339.86	5,358.37	11,419.00	1.55		5,356.82	11,419.00	9
10	PENNSYLVANIA	22,018.20	872.00	14,797.23	641.00	286.35		14,201.28	641.00	10
11	**TOTALS**	**31,450.10**	**28,790.74**	**22,196.60**	**19,732.00**	**287.90**		**21,599.10**	**19,732.00**	11
	EAST NORTH CENTRAL									
12	ILLINOIS	30,219.45		14,853.50		98.30		14,755.25		12
13	INDIANA	16,801.47		10,605.77		10.25		10,595.53		13
14	MICHIGAN	17,973.60		13,040.86		41.33		12,999.36		14
15	OHIO	25,124.28		18,980.68		17.84		18,962.84		15
16	WISCONSIN	10,232.30		6,445.10		84.10		6,361.00		16
17	**TOTALS**	**100,351.10**		**63,925.91**		**251.82**		**63,673.98**		17
	WEST NORTH CENTRAL									
18	IOWA	3,580.60		2,143.68		19.66		2,126.02		18
19	KANSAS	4,739.50		665.48		79.98		585.49		19
20	MINNESOTA	4,880.60		2,817.67		5.54		2,812.13		20
21	MISSOURI	7,497.27		5,095.51		19.88		5,075.63		21
22	NEBRASKA	2,079.00		935.74		1.92		933.82		22
23	NORTH DAKOTA	731.34		462.14		3.55		458.59		23
24	SOUTH DAKOTA	233.40		1.81		1.00		.81		24
25	**TOTALS**	**23,741.71**		**12,122.03**		**131.53**		**11,992.49**		25
	SOUTH ATLANTIC									
26	DELAWARE	626.30	739.00	630.00	764.00			630.00	764.00	26
27	DISTRICT OF COLUMBIA	2,256.00		474.00		3.00		471.00		27
28	FLORIDA	5,575.10	15,600.75	4,357.80	15,144.40	28.90		4,328.90	15,144.40	28
29	GEORGIA	5,058.00	2,075.08	3,281.00	1,368.80	49.60		3,231.40	1,368.80	29
30	MARYLAND	982.50	7,363.60	773.00	5,765.00	.10	4.50	772.90	5,760.50	30
31	NORTH CAROLINA	10,379.00		7,136.56		43.96		7,093.70		31
32	SOUTH CAROLINA	4,253.77	201.32	3,753.58	210.67	6.90		3,746.68	210.67	32
33	VIRGINIA	4,872.66	1,342.10	3,744.60	1,340.10	9.76		3,734.80	1,340.10	33
34	WEST VIRGINIA	10,327.66		5,929.30		119.93		5,809.37		34
35	**TOTALS**	**44,370.99**	**27,321.85**	**30,079.84**	**24,532.97**	**262.15**	**4.50**	**29,818.75**	**24,528.47**	35
	EAST SOUTH CENTRAL									
36	ALABAMA	10,423.60		7,852.50		30.31		7,822.19		36
37	KENTUCKY	11,932.21		6,197.50		97.08		6,100.42		37
38	MISSISSIPPI	2,419.50	683.00	1,217.82	752.00	11.92		1,205.90	752.00	38
39	TENNESSEE	10,858.90		8,669.00		63.00		8,606.00		39
40	**TOTALS**	**35,634.21**	**683.00**	**23,936.82**	**752.00**	**202.31**		**23,734.51**	**752.00**	40
	WEST SOUTH CENTRAL									
41	ARKANSAS	2,986.35		1,864.60		3.83		1,860.77		41
42	LOUISIANA	8,564.84	1,492.40	5,381.08	931.00	196.50		5,196.64	931.00	42
43	OKLAHOMA	5,512.02		343.14		51.84		291.41		43
44	TEXAS	39,286.33	2,476.50	14,638.41	1,684.40	208.28	8.00	14,425.77	1,676.40	44
45	**TOTALS**	**56,749.54**	**3,968.90**	**22,227.23**	**2,615.40**	**460.45**	**8.00**	**21,774.59**	**2,607.40**	45
	MOUNTAIN									
46	ARIZONA	2,102.60		825.18		453.13		372.88		46
47	COLORADO	2,912.30		289.17		26.51		263.67		47
48	IDAHO									48
49	MONTANA	239.70		130.00		.10		129.90		49
50	NEVADA	1,632.70		67.42		22.01		45.41		50
51	NEW MEXICO	3,213.20		102.12		32.97		69.05		51
52	UTAH	1,261.50		127.09		6.09		121.00		52
53	WYOMING	1,081.00		282.50		21.00		261.30		53
54	**TOTALS**	**12,443.00**		**1,823.48**		**561.81**		**1,263.21**		54
	PACIFIC									
55	CALIFORNIA	6,473.60	17,722.80	1,084.06	14,251.84	21.56	.27	1,064.20	14,251.57	55
56	OREGON	180.20		93.60				93.60		56
57	WASHINGTON	2,678.00		850.35		9.00		841.35		57
58	TOTALS	**9,331.80**	**17,722.80**	**2,028.01**	**14,251.84**	**30.56**	**.27**	**1,999.15**	**14,251.57**	58
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		2,027.00		1,640.00				1,640.00	60
61	PUERTO RICO		3,186.40		3,178.76				3,178.76	61
62	VIRGIN ISLANDS									62
63	**TOTALS**		**5,213.40**		**4,818.76**				**4,818.76**	63
64	**U.S. TOTALS**	**319,210.45**	**94,868.93**	**182,558.02**	**75,136.38**	**2,198.33**	**12.96**	**180,064.08**	**75,135.42**	64

TABLE 7-B

AVERAGE COOLING WATER USE, BY WATER RESOURCE REGION, 1972

LINE NO	WATER RESOURCE REGION	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
1	NEW ENGLAND	5,130.00	13,379.12	4,218.10	10,211.41	9.80	.19	4,208.30	10,223.22	1
2	MIDDLE ATLANTIC	22,060.26	36,024.56	18,142.19	25,763.10	220.12	4.50	18,102.03	25,758.60	2
3	SOUTH ATLANTIC - GULF	31,541.77	18,560.15	23,339.64	17,475.87	130.37		23,209.27	17,475.87	3
4	GREAT LAKES	49,535.70		31,905.67		125.93		31,779.57		4
5	OHIO	67,531.36		42,098.45		336.84		41,272.07		5
6	TENNESSEE	13,190.10		10,255.50		82.50		10,174.10		6
7	UPPER MISSISSIPPI	34,296.81		17,378.27		101.36		17,276.91		7
8	LOWER MISSISSIPPI	12,950.54	1,462.40	9,112.65	931.00	208.60		8,916.10	931.00	8
9	SOURIS - RED - RAINY	365.80		300.68		.04		300.64		9
10	MISSOURI	11,157.62		5,654.51		121.63		5,532.69		10
11	ARKANSAS - WHITE - RED	17,401.20		3,618.17		105.55		3,513.58		11
12	TEXAS - GULF	31,911.33	2,151.50	12,820.95	1,405.30	170.33	8.00	12,652.23	1,397.30	12
13	RIO GRANDE	3,109.60		96.79		27.52		67.95		13
14	UPPER COLORADO	2,129.10		148.22		25.32		122.90		14
15	LOWER COLORADO	2,800.70		835.02		461.76		374.09		15
16	GREAT BASIN	2,484.10		191.97		27.77		164.20		16
17	COLUMBIA - NORTH PACIFIC	2,858.20		943.95		9.00		934.95		17
18	CALIFORNIA - SOUTH PACIFIC	6,549.26	17,722.80	1,086.29	14,251.84	22.89	.27	1,065.10	14,251.57	18
19	TOTALS - CONTIGUOUS U.S.	317,051.45	89,330.53	182,147.02	70,038.52	2,187.33	12.96	179,669.08	70,037.56	19
20	ALASKA	645.00		400.00		5.00		395.00		20
21	HAWAII		2,027.00		1,640.00				1,640.00	21
22	PUERTO RICO		3,186.40		3,178.76				3,178.76	22
23	TOTALS - NON-CONTIGUOUS U.S.	2,159.00	5,538.40	411.00	5,097.86	11.00		395.00	5,097.86	23
24	TOTALS - UNITED STATES	319,210.45	94,868.93	182,558.02	75,136.38	2,198.33	12.96	180,064.08	75,135.42	24

TABLE 8-A

USE OF CHEMICAL ADDITIVES, BY REGION AND STATE, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
	NEW ENGLAND										
1	CONNECTICUT				364.35	21.55	52.19				1
2	MAINE			12.20		3.53	15.30		5.80		2
3	MASSACHUSETTS	5.15		6.20	328.85	24.52	1,301.93	2.25	33.84	5.81	3
4	NEW HAMPSHIRE				29.14	.63	96.87				4
5	RHODE ISLAND				9.07	39.17	1.98				5
6	VERMONT					.15					6
T	**TOTALS**	**5.15**		**18.40**	**731.41**	**89.55**	**1,468.27**	**2.25**	**39.64**	**5.81**	7
	MIDDLE ATLANTIC										
8	NEW JERSEY	52.00	.23		3,869.65	29.54	5,523.71	11.22	1.45	.15	8
9	NEW YORK				1,790.65	149.00	1,807.54	230.16	10.28	.75	9
10	PENNSYLVANIA	2.05	5,913.91	97.46	1,652.91	33.95	5,410.41	42.69	341.94	23.71	10
11	**TOTALS**	**54.05**	**5,914.14**	**97.46**	**7,313.21**	**212.49**	**12,741.66**	**284.07**	**353.67**	**24.61**	11
	EAST NORTH CENTRAL										
12	ILLINOIS		10.00	54.50	5,309.15	65.53	3,532.57	1,130.48	69.92	.75	12
13	INDIANA		9.15	10.00	589.82	30.84	813.85	1,305.19	77.52	21.32	13
14	MICHIGAN				1,371.52	40.65	1,900.23	551.01	322.00	29.49	14
15	OHIO	26.77	1,230.98	170.18	1,652.41	32.83	2,823.69	319.00	46.65	25.75	15
16	WISCONSIN				490.33	32.39	1,477.88	24.98	14.92	1.35	16
17	**TOTALS**	**26.77**	**1,250.13**	**234.68**	**9,813.23**	**202.24**	**10,548.22**	**3,330.66**	**531.01**	**78.66**	17
	WEST NORTH CENTRAL										
18	IOWA		174.45	47.13	224.59	10.01	298.44	200.10	17.13	.10	18
19	KANSAS	77.02	614.52	10.18	228.07	9.80	265.33	125.60	.90	2.36	19
20	MINNESOTA				320.91	23.62	179.64	18.51	8.23	.28	20
21	MISSOURI	19.71	277.73	63.76	243.95	29.03	4,420.03	1,450.46	15.30	28.95	21
22	NEBRASKA	3.55	1,428.10	81.05	29.76	3.76	160.61	265.95	26.98		22
23	NORTH DAKOTA				.50	.62	1,065.38	105.18	15.75	.55	23
24	SOUTH DAKOTA	2.20	438.50	76.00	6.90	3.55	52.80				24
25	**TOTALS**	**102.48**	**2,933.30**	**278.12**	**1,054.68**	**80.59**	**6,446.23**	**2,166.20**	**84.29**	**32.24**	25
	SOUTH ATLANTIC										
26	DELAWARE	.11			102.67	3.53	1,325.10	19.14		10.16	26
27	DISTRICT OF COLUMBIA			10.80	47.50	3.27	2.50				27
28	FLORIDA	.90			1,015.95	24.84	2,651.19	429.93	38.62	22.19	28
29	GEORGIA				648.00	1.99	1,179.17	9.57	495.25	5.53	29
30	MARYLAND	.33			1,089.15	.54	566.79	25.75	135.79	.05	30
31	NORTH CAROLINA	2.50		407.18	63.00	11.09	.01		91.00	5.61	31
32	SOUTH CAROLINA				32.75	7.08	1,081.58		167.90	2.85	32
33	VIRGINIA			83.05	315.00	12.87	641.03	9.00	103.85	.75	33
34	WEST VIRGINIA				257.74	14.13	1,253.79	280.04	22.95	11.04	34
35	**TOTALS**	**3.84**		**501.03**	**3,571.76**	**79.34**	**8,701.16**	**773.43**	**1,055.36**	**62.18**	35
	EAST SOUTH CENTRAL										
36	ALABAMA					5.00	470.57	1.50	117.06	11.14	36
37	KENTUCKY		32.54	64.60	478.28	20.69	320.44	62.74	97.33	5.36	37
38	MISSISSIPPI	3.75	206.41	42.20	25.36	3.53	342.99	5.00			38
39	TENNESSEE				194.28	13.56	372.05		111.99	7.81	39
40	**TOTALS**	**3.75**	**238.95**	**106.80**	**697.92**	**42.78**	**1,506.05**	**69.24**	**326.38**	**24.31**	40
	WEST SOUTH CENTRAL										
41	ARKANSAS	1.73	454.73	125.44	131.53	2.41	182.93			1.53	41
42	LOUISIANA	3.71		10.15	291.98	20.01	2,465.84	1,129.48	124.76	1.25	42
43	OKLAHOMA	123.81	225.07	30.50	151.55	7.63	856.51	52.37	35.44	12.93	43
44	TEXAS	59.04	3,797.97	218.65	2,982.01	43.97	5,477.48	404.85	19.76	12.41	44
45	**TOTALS**	**228.29**	**4,477.77**	**384.74**	**3,557.07**	**74.02**	**8,982.76**	**1,586.70**	**179.96**	**28.12**	45
	MOUNTAIN										
46	ARIZONA	75.80			89.54	1.03	204.82	22.35			46
47	COLORADO	81.35	4.20	64.30	211.75	15.05	19.43	84.57	27.56		47
48	IDAHO										48
49	MONTANA					.23	.12	8.65	.95	.34	49
50	NEVADA	31.00	2,020.00		398.51	2.41	62.78				50
51	NEW MEXICO	25.79			90.09	4.71	92.57	122.80	27.70		51
52	UTAH	40.40			25.70	3.40	.81				52
53	WYOMING	11.45			20.00	.47	30.02	24.90	55.90		53
54	**TOTALS**	**265.79**	**2,024.20**	**64.30**	**835.59**	**27.30**	**410.55**	**263.27**	**112.11**	**.34**	54
	PACIFIC										
55	CALIFORNIA	62.63			958.79	40.59	1,322.96	305.71			55
56	OREGON					3.31	10.41				56
57	WASHINGTON				25.84	5.72	2.83		7.65		57
58	**TOTALS**	**62.63**			**984.63**	**49.62**	**1,336.20**	**305.71**	**7.65**		58
	NON-CONTIGUOUS U.S.										
59	ALASKA										59
60	HAWAII					.86	.54				60
61	PUERTO RICO				5.18	7.07	199.91				61
62	VIRGIN ISLANDS										62
63	**TOTALS**				**5.18**	**7.93**	**200.45**				63
64	**U.S. TOTALS**	**752.75**	**16,838.49**	**1,685.53**	**28,564.68**	**865.86**	**52,341.55**	**8,781.53**	**2,690.07**	**256.27**	64

TABLE 8-B

USE OF CHEMICAL ADDITIVES, BY WATER RESOURCES REGION, 1972

LINE NO	WATER RESOURCE REGION	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
1	NEW ENGLAND	5.15		18.40	813.41	95.85	1,472.42	2.25	39.64	5.81	1
2	MIDDLE ATLANTIC	52.44	.23	159.36	8,103.41	205.09	11,655.25	274.43	421.57	18.00	2
3	SOUTH ATLANTIC - GULF	3.40		407.18	1,774.92	47.58	5,339.51	446.00	868.53	47.51	3
4	GREAT LAKES			31.95	3,097.01	115.77	5,294.57	656.30	383.62	31.59	4
5	OHIO	28.82	7,186.58	244.78	2,854.97	96.44	7,766.63	1,918.34	423.59	81.19	5
6	TENNESSEE				331.28	11.00	160.75		113.69	10.72	6
7	UPPER MISSISSIPPI		184.45	101.63	5,715.33	96.05	4,419.09	1,525.39	81.05	1.03	7
8	LOWER MISSISSIPPI	7.46	235.56	177.79	432.04	25.53	2,690.09	1,129.48	124.76	2.78	8
9	SOURIS - RED - RAINY				1.56	.82	1.26		6.75		9
10	MISSOURI	95.26	2,589.14	229.20	413.40	35.12	2,946.42	942.65	108.76	29.94	10
11	ARKANSAS - WHITE - RED	202.03	2,445.26	69.02	389.52	21.62	2,688.62	705.62	12.86	7.92	11
12	TEXAS - GULF	76.29	1,268.28	165.34	2,810.05	36.60	4,756.79	382.65	19.76	12.41	12
13	RIO GRANDE	48.52	900.50		44.34	7.08	242.43	22.15			13
14	UPPER COLORADO	12.50	4.20	64.30	79.70	1.33	97.83	117.45	55.26		14
15	LOWER COLORADO	106.80	2,020.00		471.37	2.53	204.98	22.35			15
16	GREAT BASIN	51.45			41.68	4.11	92.73	24.90			16
17	COLUMBIA - NORTH PACIFIC				25.84	9.03	13.24		7.65		17
18	CALIFORNIA - SOUTH PACIFIC	62.63	4.29	16.58	964.58	46.13	1,775.31	311.57	22.58	7.37	18
19	TOTALS - CONTIGUOUS U.S.	752.75	16,838.49	1,685.53	28,364.41	857.68	52,077.92	8,781.53	2,690.07	256.27	19
20	ALASKA				123.00		19.00				20
21	HAWAII					.86	.54				21
22	PUERTO RICO				5.18	7.07	199.91				22
23	TOTALS - NON-CONTIGUOUS U.S.				200.27	8.18	263.63				23
24	TOTALS - UNITED STATES	752.75	16,838.49	1,685.53	28,564.68	865.86	52,341.55	8,781.53	2,690.07	256.27	24

TABLE 9-A

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY WATER RESOURCE REGION, 1972

LINE NO	GEOGRAPHIC REGION AND STATE	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
	NEW ENGLAND									
1	CONNECTICUT	1.56	8,718.33		100.18	1,084.59	93.60	659.61	143.20	1
2	MAINE		2,773.70			2.40	4.30	2.60	23.10	2
3	MASSACHUSETTS	3,592.05	19,786.35		139.24	717.58	96.01	822.49	298.76	3
4	NEW HAMPSHIRE	1,924.00	1,889.00	2,400.00		184.10	4.60	115.20	25.00	4
5	RHODE ISLAND		3,090.00			2.50	2.99	5.50	12.82	5
6	VERMONT	141.00				4.50				6
7	**TOTALS**	**5,658.61**	**36,257.38**	**2,400.00**	**239.42**	**1,995.67**	**201.50**	**1,605.40**	**502.88**	7
	MIDDLE ATLANTIC									
8	NEW JERSEY	4,632.40	30,499.30			1,049.50	289.10	1,282.60	609.80	8
9	NEW YORK	34,363.90	48,031.73			1,801.06	308.38	2,488.63	569.89	9
10	PENNSYLVANIA	41,908.77		42.80	33,105.20	1,978.60	593.88	1,919.50	2,296.71	10
11	**TOTALS**	**80,905.07**	**78,531.03**	**42.80**	**33,105.20**	**4,829.16**	**1,191.36**	**5,690.73**	**3,476.40**	11
	EAST NORTH CENTRAL									
12	ILLINOIS	89,930.60		44,164.00	2,887.00	5,087.52	540.29	3,483.55	1,021.57	12
13	INDIANA	37,235.80			4,630.60	1,259.25	112.32	1,733.64	251.20	13
14	MICHIGAN	21,735.00		1,100.00	1,015.00	1,066.48	122.64	7,567.03	503.78	14
15	OHIO	64,273.80			7,660.00	2,876.80	252.56	2,372.00	717.78	15
16	WISCONSIN	20,524.70				1,011.43	67.53	656.27	294.48	16
17	**TOTALS**	**233,703.90**		**45,264.00**	**16,192.60**	**11,301.48**	**1,095.34**	**15,812.49**	**2,788.81**	17
	WEST NORTH CENTRAL									
18	IOWA	10,026.00		314.00	2,836.32	370.60	106.90	432.50	149.60	18
19	KANSAS	4,669.24		812.00	15,718.89	731.66	362.28	312.56	180.08	19
20	MINNESOTA	17,802.00		282.00	4,835.00	658.40	113.54	230.45	169.16	20
21	MISSOURI	37,364.30		3,482.00	2,409.03	803.99	99.79	1,298.48	425.39	21
22	NEBRASKA	6,618.40			2,891.80	165.02	102.32	223.28	71.15	22
23	NORTH DAKOTA	2,341.80		850.00		33.50	1.00	55.80	89.80	23
24	SOUTH DAKOTA	2,337.00			884.00	130.00	42.00	43.00	2.00	24
25	**TOTALS**	**81,158.74**		**5,740.00**	**29,575.04**	**2,893.17**	**827.83**	**2,596.07**	**1,087.18**	25
	SOUTH ATLANTIC									
26	DELAWARE	2,533.00	385.00			165.40	23.30	100.00	75.82	26
27	DISTRICT OF COLUMBIA	1,677.00			460.00	329.00	15.90	146.80	2.84	27
28	FLORIDA	11,422.70	43,042.50	5,699.00	5,230.40	908.90	267.51	912.10	421.98	28
29	GEORGIA	811.50	1,555.30		7,470.00	556.30	83.90	1,034.26	168.80	29
30	MARYLAND	3,167.00	32,795.00		469.00	962.40	82.40	395.60	25.10	30
31	NORTH CAROLINA	15,682.40		17,168.80	2,417.30	1,999.84	69.28	80.90	42.31	31
32	SOUTH CAROLINA	4,948.09	37.00	6,731.25	3,923.70	76.35	14.75	86.90	124.99	32
33	VIRGINIA	13,452.00	6,616.00		985.00	644.60	72.96	582.50	104.69	33
34	WEST VIRGINIA	2,645.00		6,523.00	34,975.00	591.90	70.25	190.50	193.76	34
35	**TOTALS**	**56,338.69**	**84,430.80**	**36,122.05**	**55,930.40**	**6,234.69**	**700.25**	**3,529.56**	**1,160.29**	35
	EAST SOUTH CENTRAL									
36	ALABAMA	25,296.00				281.30		602.00	345.70	36
37	KENTUCKY	39,994.04			8,318.72	548.40	137.97	494.58	223.75	37
38	MISSISSIPPI	6,818.20	1,090.70	3,027.50	1,791.78	544.53	97.21	102.80	66.01	38
39	TENNESSEE	19,385.00				217.00	22.00	330.00	124.00	39
40	**TOTALS**	**91,493.24**	**1,090.70**	**3,027.50**	**10,110.50**	**1,591.23**	**257.18**	**1,529.38**	**759.46**	40
	WEST SOUTH CENTRAL									
41	ARKANSAS	9,892.77		395.90	1,827.20	215.95	119.00	54.68	57.72	41
42	LOUISIANA	18,443.90	5,325.30	1,911.50	14,159.74	244.30	138.88	825.50	588.60	42
43	OKLAHOMA	1,077.20		8,599.40	7,505.18	192.03	301.29	57.70	95.14	43
44	TEXAS	2,215.60	5,668.00	58,043.88	35,549.68	1,879.36	759.74	702.66	803.44	44
45	**TOTALS**	**31,629.47**	**10,993.30**	**68,950.68**	**59,041.80**	**2,531.64**	**1,318.91**	**1,640.54**	**1,544.90**	45
	MOUNTAIN									
46	ARIZONA	356.92		730.00	7,937.03	139.82	118.82	196.02	35.26	46
47	COLORADO	1,344.00		1,426.00	5,758.00	374.81	244.16	136.21	31.04	47
48	IDAHO									48
49	MONTANA	1,502.70				25.00		26.60	3.30	49
50	NEVADA	118.00		1,328.00	1,308.00	489.50	323.55	799.47	75.28	50
51	NEW MEXICO			11,280.00	3,990.60	277.70	57.90	969.50	89.20	51
52	UTAH	76.08			2,286.06	214.00	101.60	68.30	11.30	52
53	WYOMING	3,232.00			4,232.70	113.00	37.00	78.40	36.40	53
54	**TOTALS**	**6,629.70**		**14,764.00**	**25,512.39**	**1,633.83**	**883.03**	**2,274.50**	**281.78**	54
	PACIFIC									
55	CALIFORNIA	3,342.00	85,304.40	7,873.00	21,367.90	2,137.23	480.89	1,320.76	310.37	55
56	OREGON	322.00				17.89		5.39	6.96	56
57	WASHINGTON	4,056.00				53.03		83.38	4.85	57
58	**TOTALS**	**7,720.00**	**85,304.40**	**7,873.00**	**21,367.90**	**2,208.15**	**480.89**	**1,409.53**	**322.18**	58
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		8,763.52			147.00		54.50	12.10	60
61	PUERTO RICO						17.56		9.16	61
62	VIRGIN ISLANDS									62
63	**TOTALS**		**8,763.52**			**147.00**	**17.56**	**54.50**	**21.26**	63
64	**U.S. TOTALS**	**595,237.42**	**305,371.13**	**184,184.03**	**251,075.25**	**35,366.02**	**6,973.85**	**36,142.70**	**11,945.14**	64

TABLE 9-B

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY REGION AND STATE, 1972

LINE NO	WATER RESOURCE REGION	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
1	NEW ENGLAND	5,658.61	46,269.38	2,400.00	239.42	2,368.67	225.00	1,826.40	567.88	1
2	MIDDLE ATLANTIC	47,720.60	108,315.03	6,565.00	6,171.20	4,983.16	855.87	5,690.38	2,809.67	2
3	SOUTH ATLANTIC - GULF	48,570.69	45,725.50	26,867.05	20,080.40	3,656.66	491.94	2,548.96	1,090.86	3
4	GREAT LAKES	103,402.13		1,100.00	1,015.00	3,746.70	329.34	10,030.90	1,150.53	4
5	OHIO	152,776.08			86,334.32	5,737.98	964.18	3,829.47	1,594.05	5
6	TENNESSEE	29,395.00		2,732.00	985.00	427.54	61.48	1,284.00	162.51	6
7	UPPER MISSISSIPPI	103,390.20		44,760.00	4,469.32	5,368.70	669.71	3,760.38	1,288.91	7
8	LOWER MISSISSIPPI	34,977.87	5,325.30	4,423.40	15,091.02	865.45	223.89	901.68	682.93	8
9	SOURIS - RED - RAINY	1,339.00			542.00	31.80	.36	46.82	8.98	9
10	MISSOURI	32,985.70		5,310.00	16,020.78	1,181.57	545.64	1,341.65	409.35	10
11	ARKANSAS - WHITE - RED	18,168.94		13,425.46	29,555.32	1,493.38	758.40	662.61	429.42	11
12	TEXAS - GULF	2,215.60	4,046.00	48,732.32	23,364.98	1,261.30	524.61	532.61	630.42	12
13	RIO GRANDE				8,432.80	518.00	150.41	80.90	65.32	13
14	UPPER COLORADO	937.00		11,629.00	1,112.51	309.42	96.00	989.92	85.23	14
15	LOWER COLORADO	356.92		730.00	9,245.03	545.28	418.83	493.48	40.15	15
16	GREAT BASIN	194.08		1,328.00	4,388.25	169.64	112.34	605.31	92.19	16
17	COLUMBIA - NORTH PACIFIC	4,378.00				70.92		88.77	11.81	17
18	CALIFORNIA - SOUTH PACIFIC	3,342.00	85,304.40	7,873.00	21,367.90	2,137.23	480.89	1,320.76	310.37	18
19	**TOTALS - CONTIGUOUS U.S.**	**589,708.42**	**294,985.61**	**177,876.03**	**248,415.25**	**34,873.42**	**6,908.89**	**36,035.00**	**11,840.58**	**19**
20	ALASKA	5,529.00			2,660.00	300.00	25.00	50.00	25.00	20
21	HAWAII		8,763.52			147.00		54.50	12.10	21
22	PUERTO RICO						17.56		9.16	22
23	**TOTALS - NON-CONTIGUOUS U.S.**	**5,529.00**	**10,385.52**	**6,388.00**	**2,660.00**	**492.60**	**64.96**	**107.70**	**104.56**	**23**
24	**TOTALS - UNITED STATES**	**595,237.42**	**305,371.13**	**184,184.03**	**251,075.25**	**35,366.02**	**6,973.85**	**36,142.70**	**11,945.14**	**24**

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	1
2							2
3							3
4	NAME OF PLANT	BARRY	CHICKASAW	GADSDEN	GORGAS #2 & #3	GREENE	4
5	UTILITY-PLANT CODE	004500-0200	004500-0400	004500-0500	004500-0600	004500-0800	5
6	STATE	ALABAMA	ALABAMA	ALABAMA	ALABAMA	ALABAMA	6
7	COUNTY	MOBILE	MOBILE	ETOWAH	WALKER	GREENE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	005 03	005 03	003 03	004 03	004 03	8
9	PLANT CAPACITY (MW)	1,770.80	138.00	138.00	1,545.70	568.00	9
10	ANNUAL GENERATION (MWH)[3]	7,318,600	518,600	776,300	4,895,500	3,066,700	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,037	14,083	11,817	10,681	9,595	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3,031.00	284.40	364.10	2,234.70	1,225.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,933	11,967	11,844	11,663	11,981	13
14	AVERAGE SULFUR CONTENT (%)	2.58	2.00	1.13	1.39	1.99	14
15	AVERAGE ASH CONTENT (%)	11.72	14.70	11.53	13.87	14.80	15
16	AVERAGE MOISTURE CONTENT (%)	7.81	6.18	8.23	6.63	5.99	16
17	OIL: CONSUMPTION (1,000 BARRELS)	192.00	14.00	4.00	28.30	12.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,670	138,454	137,376	138,137	136,540	18
19	AVERAGE SULFUR CONTENT (%)	.50	.50	.50	.50	.50	19
20	GAS: CONSUMPTION (1,000 MCF)		394.50	509.10			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,052	1,029			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	3	2	8	2	22
23	- NO. OF WET BOTTOM	3			5	2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	3	3		4		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2		2	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 18.00	15.00 22.00	20.00	15.00 18.00	18.00 20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00 85.00		85.00	84.00 87.00		30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	80.00	80.00		84.00 85.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00 98.50		97.00	98.50 99.00	98.00	33
34	TESTED, LOW - HIGH			88.00 93.00	99.94		34
35	EST., LOW - HIGH	85.00 95.00			95.00 99.00	85.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	35.92	7.11	3.38	65.96	17.68	39
40	SULFUR DIOXIDE (1,000 TONS)	154.78	11.17	7.66	61.37	48.04	40
41	NITROGEN OXIDES (1,000 TONS)	41.07	2.67	3.39	31.16	18.40	41
42	STACKS: - TOTAL NO.	5	3	2	6	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00 600.00	174.50	153.30	176.00 750.00	300.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	331.80	36.90	40.30	246.00	178.60	45
46	SOLD (1,000 TONS)[11]	.20					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	955.00	296.01		1,072.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	3,566.00		547.60	8,329.00	1,071.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	2,389.00	11.00	11.00	2,666.00	296.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	377.60	64.10	63.50	320.10	97.60	55
56	REVENUES FROM SALE OF ASH ($1,000)	.20					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	379.40	64.10	64.00	322.50	97.60	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.20					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	MOBILE RIVER	R MOBILE	R COOSA	R BLACK WARRIOR	R BLACK WARRIOR	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,389.90	199.00	206.70	893.30	494.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,389.90	199.00	206.70	893.30	454.60	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	11.95	1.71	1.78	7.68	3.91	64
65	PEAK LOAD MONTH: SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 58.00	93.00 68.00	88.00 55.00	76.00 50.00	86.00 58.00	66
67	AT OUTFALL, SUMMER - WINTER	108.00 80.00	109.00 80.00	109.00 77.00	92.00 65.00	90.00 77.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	10,752.00	10,752.00	5,289.00	1,388.00	2,261.00	68
69	- WINTER	28,000.00	28,000.00	16,650.00	3,593.00	14,352.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]				C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.18	.21	.06	.78	.02	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	146.69	.77	.27	2.36	.03	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	39.41			16.35		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.36			.42	1.62	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST/OT	ST	ST	OT	OT	77
78	RECEIVING WATER BODY	R MOBILE			R BLACK WARRIOR	R BLACK WARRIOR	78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 7.00	9.00 7.00	9.00 6.00	9.00 7.00	9.00 6.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 50.00	3.00 25.00	3.00 25.00	3.00 5.00	3.00 5.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	200.00	560.00	8.40	260.00	2,000.00	81
82	- ASH SETTLING	220,000.00	2,500.00	5,000.00	100,000.00	60,000.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 1,770.81	3 138.00	2 138.00	7 1,545.70	2 568.48	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1971	1941 1951	1949	1929 1972	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.00 24.00	14.00	20.00	15.60 22.00	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,731.70	326.60	263.00	1,846.50	612.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,432.00	333.30	262.40	1,850.00	612.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	5,620.00	149.00	306.00	1,889.00	1,726.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	44.60	18.30	12.10	46.70	15.60	95
96	COST OF CHEMICAL ADDITIVES ($1,000)						96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	147.00	14.60	12.20	119.30	43.90	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	208.30	10.20	5.40	21.70	24.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	ALEXANORIA ELEC. LIGHT & WATER WORKS	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	
NAME OF PLANT	ALEXANORIA # 2	CABIN CREEK	CLINCH RIVER	GLEN LYN	KANAWHA RIVER	
UTILITY-PLANT CODE	007000-0200	014000-0300	014000-0500	014000-0600	014000-0700	
STATE	LOUISIANA	WEST VIRGINIA	VIRGINIA	VIRGINIA	WEST VIRGINIA	
COUNTY	RAPIDES	KANAWHA	RUSSELL	WISE	KANAWHA	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	106 11	234 05	207 06	226 05	234 05	
PLANT CAPACITY (MW)	97.50	273.50	712.50	404.50	439.40	
ANNUAL GENERATION (MWH)[3]	318,700	733,500	5,484,900	2,157,500	3,161,200	
PLANT HEAT RATE (BTU/KWH)[3]	13,143	12,188	9,079	9,744	9,186	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		355.00	2,063.90	846.20	1,239.40	
AVERAGE HEAT CONTENT (BTU/LB)		12,621	12,046	12,151	11,605	
AVERAGE SULFUR CONTENT (%)		1.31	.68	.96	.92	
AVERAGE ASH CONTENT (%)		10.75	15.48	14.57	15.01	
AVERAGE MOISTURE CONTENT (%)		5.93	5.99	5.72	6.20	
OIL: CONSUMPTION (1,000 BARRELS)	21.56		5.60	67.50	2.30	
AVERAGE HEAT CONTENT (BTU/GAL)	140,122		136,493	134,500	149,000	
AVERAGE SULFUR CONTENT (%)	.10		.10	.10	.10	
GAS: CONSUMPTION (1,000 MCF)	3,868.50	40.60				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,050	1,100				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	9	3	10	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		9	3	3		
- NO. WITH ELECTROSTATIC PRECIPITATORS					2	
- NO. WITH COMBINATION PRECIPITATORS[4]				1		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	6.00 10.00	20.00	20.00	15.00 20.00	15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		15.00 85.00		85.00		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				95.00	98.50	
TESTED, LOW - HIGH		97.00 98.40			97.50	
EST., LOW - HIGH		97.00 98.40			95.50	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.78	271.81	8.54	7.12	
SULFUR DIOXIDE (1,000 TONS)	.01	9.11	28.38	16.09	22.35	
NITROGEN OXIDES (1,000 TONS)	.80	3.20	18.63	7.76	11.16	
STACKS: - TOTAL NO.	3	3	2	5	1	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	63.50 93.00	250.00 262.00	450.00	225.00 435.00	325.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]		44.00	276.00	115.50	184.00	
SOLD (1,000 TONS)[11]			9.90	14.80	40.20	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]			183.00			
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					2,966.00	
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)			451.00		519.00	
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	C CABIN	D CLINCH	D NEW	D KANAWHA	
AVERAGE RATE OF WITHDRAWAL (CFS)	.54	300.00	11.10	577.00	640.00	
AVERAGE RATE OF DISCHARGE (CFS)	.01	300.00	1.60	577.00	640.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.54	2.58	9.50	4.96	5.50	
PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 86.00	73.00 48.00	77.00 55.00	81.00 51.00	79.00 48.30	
AT OUTFALL, SUMMER - WINTER	105.00 100.00	82.00 58.00	80.00 64.00	95.00 65.00	90.00 62.50	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		11,322.00	695.00	5,120.00	11,322.00	
- WINTER		29,779.00	695.00	5,486.00	29,790.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	.22		.10	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	9.90	.17		.09	.25	
LIME (TONS), COOLING WATER - BOILER MAKEUP				9.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.25	.90	48.00 .10	15.00 .15	13.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD (S, ST, SW, OT)[18]	PS/SW	ST	OT	OT	ST	
RECEIVING WATER BODY		C CABIN		D NEW	D KANAWHA	
POND DISCHARGE[19] RH, BOILER BLOWDOWN - ASH SETTLING		7.40	12.50	9.00	6.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		90.00		5.60	23.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING		86,000.00		99,000.00	35.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		7 273.50		4 403.10	2 426.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	3 97.50		3 712.50			
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1956 1963	1943	1958 1961	1924 1957	1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00 20.00	8.30	18.80	12.20 12.80	13.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	186.00	405.60	660.00	527.70	606.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		778.00		774.00	625.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	286.00		985.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00					
COST OF CHEMICAL ADDITIVES ($1,000)	.38		34.40	1.80	1.56	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.50					
COST OF CHEMICAL ADDITIVES ($1,000)	2.30	.60	1.80	2.10	3.14	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	APPALACHIAN POWER CO.	ARIZONA ELECTRIC POWER COOP	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.	
NAME OF PLANT	AMOS	APACHE	CHOLLA	FOUR CORNERS	OCOTILLO	
UTILITY-PLANT CODE	014000-0800	016500-0100	017000-0200	017000-0300	017000-0500	
STATE	WEST VIRGINIA	ARIZONA	ARIZONA	NEW MEXICO	ARIZONA	
COUNTY	KANAWHA	COCHISE	NAVAJO	SAN JUAN	MARICOPA	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	234 05	012 15	014 15	014 14	015 15	
PLANT CAPACITY (MW)	1,632.60	105.00	113.60	2,269.80	227.20	
ANNUAL GENERATION (MWH)[3]	8,675,100	608,100	734,800	9,860,000	1,260,300	
PLANT HEAT RATE (BTU/KWH)[3]	8,959	10,344	9,892	11,186	10,529	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	3,114.80		347.90	6,893.20		
AVERAGE HEAT CONTENT (BTU/LB)	12,381		10,409	9,017		
AVERAGE SULFUR CONTENT (%)	1.15		.40	.67		
AVERAGE ASH CONTENT (%)	12.03		9.36	22.41		
AVERAGE MOISTURE CONTENT (%)	6.06		15.13	11.02		
OIL: CONSUMPTION (1,000 BARRELS)	122.50	59.87			109.10	
AVERAGE HEAT CONTENT (BTU/GAL)	137,000	137,309			139,067	
AVERAGE SULFUR CONTENT (%)	.10	.41			.61	
GAS: CONSUMPTION (1,000 MCF)		5,530.32	26.30	1,870.70	11,726.30	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,075	928	1,080	1,077	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	1	5	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			1	3		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2			2		
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	10.00	15.00	12.50 16.00	7.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00	85.00		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.50			97.00		
TESTED, LOW - HIGH	88.90 93.60					
EST., LOW - HIGH				97.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	30.44		5.74	76.65	.02	
SULFUR DIOXIDE (1,000 TONS)	68.98		2.73	94.57	.26	
NITROGEN OXIDES (1,000 TONS)	28.30	.79	3.14	62.40	2.53	
STACKS: - TOTAL NO.	1	1	1	4	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	903.00	157.00	250.00	250.00 300.00	178.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.01					
TOTAL ASH: COLLECTED (1,000 TONS)[10]	422.50		27.80	1,518.20		
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			72.10	359.40		
ELECTROSTATIC PRECIPITATORS ($1,000)	7,114.00			6,344.00		
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	6,427.00		174.00	339.40	186.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			8.50	2,162.90		
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)			10.50	2,162.90		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)		O WELLS	W	R SAN JUAN	W	
AVERAGE RATE OF WITHDRAWAL (CFS)		631.40	4.28	25.70	4.16	
AVERAGE RATE OF DISCHARGE (CFS)		216.00		4.60		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		415.40	4.28	21.10	4.16	
PEAK LOAD MONTH : SUMMER - WINTER[15]		JUL	OEC			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		72.00	68.00			
AT OUTFALL, SUMMER - WINTER		88.00	85.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		UNLIMITED				
- WINTER		UNLIMITED				
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.35	9.00 .04	.08	.95	11.35 .11	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	450.00	7.80	46.90	78.57	139.75	
LIME (TONS), COOLING WATER - BOILER MAKEUP				115.65		
ALUM (TONS), COOLING WATER - BOILER MAKEUP				27.70		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	47.00	2.00	7.10	67.00	12.75	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]		OT ST	ST	ST	ST	
RECEIVING WATER BODY		R KANAWHA O LEACHING FIELD				
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	7.26	10.50	8.00	7.83		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00	200.00		28.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING		.09		2,417.76		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)			1 115.00	4 1,330.00		
COOLING TOWER(S)	2 1,632.60	1 75.00			2 220.00	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1971 1972	1964	1962	1963	1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	26.30	15.00	18.31	16.13 20.00	19.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,334.00	8.00	62.00	1,556.40	25.80	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)			130.00	11,280.00		
COOLING TOWERS ($1,000)	10,372.00	774.70			757.50	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		17.20	1.30	56.70	8.90	
COST OF CHEMICAL ADDITIVES ($1,000)	22.50	9.60	3.50	11.70	12.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		9.80	19.00	908.70	26.70	
COST OF CHEMICAL ADDITIVES ($1,000)	33.75	3.60	1.80	66.90	13.40	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.	ARIZONA PUBLIC SERVICE CO.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS ELECTRIC COOP CORP.
NAME OF PLANT	PHOENIX	SAGUARO	YUCCA	FITZHUGH	BAILEY
UTILITY-PLANT CODE	017000-0600	017000-0700	017000-0900	017500-0100	017500-0200
STATE	ARIZONA	ARIZONA	ARIZONA	ARKANSAS	ARKANSAS
COUNTY	MARICOPA	PINAL	YUMA	FRANKLIN	WOODRUFF
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	015 15	015 15	013 15	021 11	020 11
PLANT CAPACITY (MWI	116.00	250.00	86.70	59.84	120.00
ANNUAL GENERATION (MWH) [3]	105,700	788,500	261,300	223,100	554,100
PLANT HEAT RATE (BTU/KWH) [3]	13,824	11,400	11,853	11,310	10,396

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	17.00	112.20	10.00	151.90	309.20
AVERAGE HEAT CONTENT (BTU/GAL)	137,945	144,742	152,185	155,605	153,166
AVERAGE SULFUR CONTENT (%)	.70	.70	.90	1.12	1.81
GAS: CONSUMPTION (1,000 MCF)	1,278.50	7,712.80	2,880.50	1,494.92	3,673.77
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,066	1,074	1,053	1,021	1,023

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	2	1	1	1
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS [4]					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED [%, LOWEST BOILER - HIGHEST BOILER] [5]	T.00		7.00	7.00	8.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.02		.03	.05
SULFUR DIOXIDE (1,000 TONS)	.04	.26	.03	.57	1.88
NITROGEN OXIDES (1,000 TONS)	.29	1.75	.58	.63	1.40
STACKS: - TOTAL NO.	3	1	1	1	1
- HEIGHT (FEET), LOWEST - HIGHEST [8]	103.00 135.00	160.00	146.50	179.00	167.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]					
TOTAL ASH: COLLECTED (1,000 TONS) [10]					
SOLD (1,000 TONS) [11]					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
ELECTROSTATIC PRECIPITATORS ($1,000)					
COMBINATION PRECIPITATORS ($1,000) [4]					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)		106.40		29.00	29.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]					
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	W	M	O ARKANSAS	O WHITE
AVERAGE RATE OF WITHDRAWAL (CFS)	2.92	1.94	2.78	55.00	93.00
AVERAGE RATE OF DISCHARGE (CFS)				55.00	93.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.92	1.94	2.78	.47	.80
PEAK LOAD MONTH : SUMMER - WINTER [15]					JUL JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				91.00 59.00	76.00 50.00
AT OUTFALL, SUMMER - WINTER				104.00 76.00	94.00 67.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				29,600.00	17,200.00
- WINTER				19,500.00	15,300.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.65 .02	6.17	.02	.20	.04
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		16.83		.25	.01
LIME (TONS), COOLING WATER - BOILER MAKEUP					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.00	10.86	4.08		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST
RECEIVING WATER BODY				R ARKANSAS	
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
- ASH SETTLING					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MWI USING [20]: ONCE THROUGH COOLING (FRESH)				1 59.84	1 120.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS					
COOLING TOWERS	3 116.00	2 200.30	1 75.00		
COMBINATIONS [21]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1972	1954 1955	1959	1962	1966
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	18.00	22.60	20.00	14.00	20.70
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	207.00	312.00	86.00	91.35	116.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				91.40	116.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)				630.00	897.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)		414.90	676.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.00	17.60	10.50		
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	11.70	7.30		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.00	26.40	14.90	2.00	2.00
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	3.90	2.20	5.00	5.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	ARKANSAS ELECTRIC COOP	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	
NAME OF PLANT	MCCLELLAN	LYNCH	MOSES	COUCH	LAKE CATHERINE	
UTILITY-PLANT CODE	017500-0300	018500-0200	018500-0300	018500-0400	018500-0500	
STATE	ARKANSAS	ARKANSAS	ARKANSAS	ARKANSAS	ARKANSAS	
COUNTY	OUACHITA	PULASKI	ST. FRANCIS	LAFAYETTE	HOT SPRINGS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	019 08	016 11	020 08	022 11	016 08	
PLANT CAPACITY (MW)	136.00	259.75	138.00	187.50	756.50	
ANNUAL GENERATION (MWH)[3]	278,800	585,900	276,400	529,500	3,067,100	
PLANT HEAT RATE (BTU/KWH)[3]	10,622	12,876	13,598	11,933	10,644	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	73.90	93.01	596.12	133.00	1,112.25	
AVERAGE HEAT CONTENT (BTU/GAL)	138,320	151,514	149,715	150,000	150,000	
AVERAGE SULFUR CONTENT (%)	.40	.66	.80	.80	.79	
GAS: CONSUMPTION (1,000 MCF)	2,985.42	6,880.00		5,523.10	21,059.49	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,005		989	1,017	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	3	2	2	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00	7.00	7.00	7.00 10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.02	.10	.02	.19	
SULFUR DIOXIDE (1,000 TONS)	.10				2.95	
NITROGEN OXIDES (1,000 TONS)	.75	1.55	1.31	1.37	6.56	
STACKS: - TOTAL NO.	1	3	4	3	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	160.00	147.00 150.00	141.00	147.00 150.00	175.00 195.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	44.25	72.30	24.80	59.20	172.70	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OUACHITA	W	R L'ANGUILLE	W	L CATHERINE	
AVERAGE RATE OF WITHDRAWAL (CFS)	35.00	2.61	1.89	2.10	1,093.00	
AVERAGE RATE OF DISCHARGE (CFS)	35.00	.45	1.47	.85	1,093.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.30	2.16	.42	1.25	9.40	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN		AUG DEC		AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 45.00		81.00 53.00		96.00 73.00	
AT OUTFALL, SUMMER - WINTER	101.00 55.00		91.00 49.00		96.00 73.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,000.00		2.99		1,131.00	
- WINTER	11,060.00		1.24		1,056.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	D					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.03	1.73 .54	.46	.47	.57	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP					26.39	
LIME (TONS), COOLING WATER - BOILER MAKEUP		425.58	29.15			
ALUM (TONS), COOLING WATER - BOILER MAKEUP			125.44			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		22.11	16.89	13.92	67.14 .34	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY	R OUACHITA					
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (),000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 136.00				4 757.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)						
COOLING TOWER(S)		3 259.00	2 138.00	2 187.00		
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1972	1947 1954	1951	1943 1954	1949 1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.50	16.50 18.00	18.00	15.00 18.00	12.50 18.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	156.00	367.00	218.00	260.00	1,093.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	156.00				1,093.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,032.67				1,583.40	
COOLING PONDS ($1,000)	395.90					
COOLING TOWERS ($1,000)		773.70	464.50	589.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		54.40	44.60	100.50	15.12	
COST OF CHEMICAL ADDITIVES ($1,000)		62.30	21.60	11.10	17.59	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.09	5.60	3.20	6.30	8.12	
COST OF CHEMICAL ADDITIVES ($1,000)	.31	1.60	1.40	.30	2.49	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	ARKANSAS POWER & LIGHT CO.	ASSOCIATED ELEC. COOP INC.	ASSOCIATED ELEC. COOP. INC.	ATLANTIC CITY ELECTRIC CO.	ATLANTIC CITY ELECTRIC CO.	
NAME OF PLANT	RITCHIE	HILL	NEW MADRID	ENGLAND	MISSOURI AVENUE	
UTILITY-PLANT CODE	018500-0600	021000-0100	021000-0200	022000-0100	022000-0300	
STATE	ARKANSAS	MISSOURI	MISSOURI	NEW JERSEY	NEW JERSEY	
COUNTY	PHILLIPS	RANDOLPH	NEW MADRID	CAPE MAY	ATLANTIC	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	020 08	137 10	138 06	150 02	150 02	
PLANT CAPACITY (MW)	903.64	470.00	650.00	299.20	50.00	
ANNUAL GENERATION (MWH) 3/	3,932,400	3,194,500	822,500	1,645,700	324,100	
PLANT HEAT RATE (BTU/KWH) 3/	10,150	9,643	10,024	10,095	12,370	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		1,535.30	317.10		147.06	
AVERAGE HEAT CONTENT (BTU/LB)		9,998	9,817		13,624	
AVERAGE SULFUR CONTENT (%)		4.15	4.03		.60	
AVERAGE ASH CONTENT (%)		13.25	16.73		5.60	
AVERAGE MOISTURE CONTENT (%)		16.33	12.40		6.06	
OIL: CONSUMPTION (1,000 BARRELS)	2,039.90		5.40	2,835.08	1.48	
AVERAGE HEAT CONTENT (BTU/GAL)	151,540		140,000	138,586		
AVERAGE SULFUR CONTENT (%)	.82		.10	.80		
GAS: CONSUMPTION (1,000 MCF)	26,301.76					
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,025					

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	1	2	2	
- NO. OF WET BOTTOM			1	2		
- NO. WITH FLY ASH REINJECTION				2		
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS		2	1	2	2	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00 10.00	18.00	16.00	16.00	28.00 22.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		93.30 95.00	98.00	97.10 98.00		95.00
TESTED, LOW - HIGH		95.30 96.50		95.37 95.46	81.40	87.80
EST., LOW - HIGH		90.00 95.00	96.00	75.00	81.00	87.00
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.34	1.66	.11	.12	1.13	
SULFUR DIOXIDE (1,000 TONS)	5.48	125.51	24.86	7.61	1.73	
NITROGEN OXIDES (1,000 TONS)	9.63	42.33	8.73	6.25	1.32	
STACKS: - TOTAL NO.	3	2	1	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	236.00 450.00	400.00	600.00	250.50 .14	216.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/		200.00	80.80	119.97	17.30	
SOLD (1,000 TONS) 11/				119.97		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)		702.00	1,786.00	744.70	156.60	
COMBINATION PRECIPITATORS ($1,000) 14/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	463.40	749.00	1,143.00	291.60	56.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		140.00	47.56		23.90	
REVENUES FROM SALE OF ASH ($1,000)				26.80		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		140.00	47.57		23.90	
TOTAL BYPRODUCT SALES REVENUES ($1,000)				26.80		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R CHARITON R FK	R MISSISSIPPI	O HARBOR BAY	O BEACH THOROFARE	
AVERAGE RATE OF WITHDRAWAL (CFS)	582.00	535.00	735.00	342.00	117.00	
AVERAGE RATE OF DISCHARGE (CFS)	582.00	526.00	735.00	342.00	117.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/		9.00	6.32	2.94	1.01	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	AUG DEC	DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 45.00	87.00 48.00	37.00	73.00 48.00	72.00 42.00	
AT OUTFALL, SUMMER - WINTER	112.00 70.00	98.00 59.00	65.00	88.00 76.00	80.00 59.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		535.00				
- WINTER		535.00				
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/			H			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	.20	2.00	2.90	.33	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	156.28	31.83		144.51	27.12	
LIME (TONS), COOLING WATER - BOILER MAKEUP		2.45		.23	2.25	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		2.80				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	11.47 1.19	8.00 .15		111.00	10.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	OT	PS	ST	PS	
RECEIVING WATER BODY		R CHARITON R FK	O OMAIN DITCH	O LEACHING FIELD		
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING		6.90	5.70	9.80 6.00	7.90 7.90	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				5.00 50.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				1,200.00	22.90	
- ASH SETTLING		2,680.00	240.00	46,000.00	21,442.81	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/ ONCE THROUGH COOLING (FRESH)	2 904.00		1 650.00			
ONCE THROUGH COOLING (SALINE)				2 299.20	2 58.50	
COOLING PONDS(S)		2 470.00				
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1961 1967	1966	1971	1962 1963	1941 1946	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	25.00 30.00	16.85 18.12	24.00	10.00	10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	685.00	534.80	713.00	432.00	142.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	685.00		713.00	432.00	142.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	5,749.70		1,598.00	1,732.70	488.10
COOLING PONDS ($1,000)		2,245.00			
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.33	64.00	38.40	100.00	24.20	
COST OF CHEMICAL ADDITIVES ($1,000)	6.41	1.00		11.80	.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.37	32.00	24.00	95.50	84.00	
COST OF CHEMICAL ADDITIVES ($1,000)	41.62	11.00	9.70	14.90	4.50	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	
4 NAME OF PLANT	CRANE	GOULD STREET	WAGNER	RIVERSIDE	WESTPORT	
5 UTILITY-PLANT CODE	026500-0100	026500-0200	026500-0300	026500-0500	026500-0600	
6 STATE	MARYLAND	MARYLAND	MARYLAND	MARYLAND	MARYLAND	
7 COUNTY	BALTIMORE	BALTIMORE CITY	ANNE ARUNDEL	BALTIMORE	BALTIMORE CITY	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	115 02	115 02	115 02	115 02	115 02	
9 PLANT CAPACITY (MW)	399.80	173.50	980.30	333.50	194.00	
10 ANNUAL GENERATION (MWH)[3]	2,135,900	674,100	3,731,400	1,343,500	651,400	
11 PLANT HEAT RATE (BTU/KWH)[3]	10,020	13,085	10,110	11,807	13,563	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	140.66		802.08						
13 AVERAGE HEAT CONTENT (BTU/LB)	13,411		13,018						
14 AVERAGE SULFUR CONTENT (%)	2.29		1.01						
15 AVERAGE ASH CONTENT (%)	7.80		9.55						
16 AVERAGE MOISTURE CONTENT (%)	3.78		4.53						
17 OIL: CONSUMPTION (1,000 BARRELS)	2,680.49	1,439.25	2,742.15	2,584.05	1,441.41				
18 AVERAGE HEAT CONTENT (BTU/GAL)	145,717	145,912	146,221	146,153	145,924				
19 AVERAGE SULFUR CONTENT (%)	.83	.93	.84	.94	.84				
20 GAS: CONSUMPTION (1,000 MCF)									
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)									

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	2	3	4	5	4				
23 - NO. OF WET BOTTOM	2								
24 - NO. WITH FLY ASH REINJECTION	2		1						
25 - NO. WITH MECHANICAL PRECIPITATORS		2	1	2					
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	2	1	1	3	3				
27 - NO. WITH COMBINATION PRECIPITATORS[4]			2		1				
28 - NO. WITH DESULFURIZATION SYSTEMS									
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	20.00 25.00	5.00 23.00	14.00 20.00	14.00 20.00				
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		80.00	90.00	65.00					
31 TESTED, LOW - HIGH		74.20							
32 ESTIMATED, LOW - HIGH		60.00	90.00	50.00					
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH	95.00	95.00	95.00 99.00	87.00	82.00 87.00				
34 TESTED, LOW - HIGH	55.10 80.00	97.50	95.80 97.80	70.70	79.00 93.00				
35 EST., LOW - HIGH	55.00 63.00	60.00	73.00 76.00	70.00 70.70	65.00 80.00				
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH									
37 TESTED, LOW - HIGH									
38 ESTIMATED, LOW - HIGH									

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.64	.10	6.31	.16	.06	
40 SULFUR DIOXIDE (1,000 TONS)	14.33	4.35	24.00	7.80	4.35	
41 NITROGEN OXIDES (1,000 TONS)	10.22	3.17	13.27	5.70	3.18	
42 STACKS: - TOTAL NO.	2	3	4	5	3	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	353.00	238.00	286.80 350.00	216.00	220.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	9.40		115.70			
46 SOLD (1,000 TONS)[11]	6.20		8.00			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		588.00	709.00	696.00		
51 ELECTROSTATIC PRECIPITATORS ($1,000)	3,330.00	516.00	903.00	907.00	368.00	
52 COMBINATION PRECIPITATORS ($1,000)[4]			2,603.00		432.00	
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	4,513.00	225.00	1,639.00	520.00	154.00	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	60.90	13.10	253.30	38.30	45.30	
56 REVENUES FROM SALE OF ASH ($1,000)	4.40		5.40			
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	60.90	13.10	253.30	38.30	45.30	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	4.40		5.40			

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C SENECA	R PATAPSCO	R PATAPSCO	R PATAPSCO	R PATAPSCO	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	636.00	237.00	1,006.00	486.00	353.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	636.00	237.00	1,006.00	486.00	353.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.47	2.04	8.65	4.18	3.04	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 44.00	83.00 50.00	84.00 56.00	47.00 83.00	84.00 53.00	
67 AT OUTFALL, SUMMER - WINTER	95.00 57.00	97.00 70.00	99.00 69.00	62.00 98.00	100.00 70.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	TIDAL	TIDAL	TIDAL	TIDAL	
69 - WINTER	TIDAL	TIDAL	TIDAL	TIDAL	TIDAL	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			C			
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP						
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01	.01	.05	.01		
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	72.00		206.00	72.00	76.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	SW	PS	PS	PS	
78 RECEIVING WATER BODY		R PATAPSCO				
79 POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.80	6.80	6.60	6.80	6.80	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	52.00	2,092.00	62.00	149.00	734.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING	23,200.00	62,700.00	13,300.00	2,000.00	3,900.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)									
84 ONCE THROUGH COOLING (SALINE)	2 400.00	3 173.00	4 1,042.00	5 333.00	3 194.00				
85 COOLING PONDS(S)									
86 COOLING TOWER(S)									
87 COMBINATION[21]									
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1961 1962	1927 1952	1956 1972	1942 1953	1924 1950				
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.30	15.00	11.49 15.00	15.00	15.00				
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	694.00	330.00	1,631.60	573.00	413.00				
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	694.00	330.00	1,649.60	573.00	413.00				

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	3,364.00	927.00	9,040.00	2,016.00	1,252.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	68.30	39.20	39.80	71.40	28.20	
96 COST OF CHEMICAL ADDITIVES ($1,000)		7.00	20.00	7.00	7.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.30	6.00	43.10	11.60	9.40	
98 COST OF CHEMICAL ADDITIVES ($1,000)	4.70	1.50	5.30	2.30	.30	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	BANGOR HYDRO ELEC COMPANY	BASIN ELECTRIC POWER COOP	BEECH BOTTOM POWER CO.	BIG RIVERS RURAL ELECTRIC COOP	BIG RIVERS RURAL ELECTRIC COOP	1
4	NAME OF PLANT	GRAHAM	LELAND OLDS	MINOSOP	COLEMAN	REID	4
5	UTILITY-PLANT CODE	028000-0600	031000-0100	035500-0100	041000-0050	041000-0100	5
6	STATE	MAINE	NORTH DAKOTA	WEST VIRGINIA	KENTUCKY	KENTUCKY	6
7	COUNTY	PENOBSCOT	MERCER	BROOKE	HANCOCK	HENDERSON	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	109 01	172 10	181 05	077 05	077 05	8
9	PLANT CAPACITY (MW)	57.45	240.00	300.00	521.30	80.00	9
10	ANNUAL GENERATION (MMWH)[3]	285,400	1,575,400	424,600	3,168,000	504,000	10
11	PLANT HEAT RATE (BTU/KWH)[3]	12,749	10,699	16,980	10,200	11,409	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,317.00	313.50	1,475.99	265.12	12
13	AVERAGE HEAT CONTENT (BTU/LB)		6,684	11,319	10,710	10,833	13
14	AVERAGE SULFUR CONTENT (%)		.75	3.83	3.79	4.23	14
15	AVERAGE ASH CONTENT (%)		7.49	17.35	12.73	13.32	15
16	AVERAGE MOISTURE CONTENT (%)		37.71	5.07	11.56	9.90	16
17	OIL: CONSUMPTION (1,000 BARRELS)	581.70	2.40	27.20		.70	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,928	140,000	136,473		136,000	18
19	AVERAGE SULFUR CONTENT (%)	2.01	.10	.10		.10	19
20	GAS: CONSUMPTION (1,000 MCF)				552.71		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	1	4	3	1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS		1	4		1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				3		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]					1	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	24.00	20.00	18.00	22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			85.00	30
31	TESTED, LOW - HIGH		82.50				31
32	ESTIMATED, LOW - HIGH		85.30	77.30			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				99.00	99.90	33
34	TESTED, LOW - HIGH				97.60 99.40	98.40	34
35	EST., LOW - HIGH				99.50	99.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.10	12.56	10.71	.80	.15	39
40	SULFUR DIOXIDE (1,000 TONS)	3.90	19.36	22.61	109.91	21.86	40
41	NITROGEN OXIDES (1,000 TONS)	1.28	11.00	2.80	13.39	2.39	41
42	STACKS: - TOTAL NO.	3	1	2	3	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	99.00	250.00	272.00	250.00	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		87.70	49.30	185.70	35.00	45
46	SOLD (1,000 TONS)[11]		8.57				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		145.00			25.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				1,657.60		51
52	COMBINATION PRECIPITATORS ($1,000)[4]					396.70	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	42.40	172.30		1,036.70	125.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		61.30		103.10	23.90	55
56	REVENUES FROM SALE OF ASH ($1,000)		34.40				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		71.10		103.10	23.90	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		34.40				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C PENOBSCOT	K MISSOURI	M OHIO	O OHIO	G GREEN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	85.00	162.64	395.00	562.60	150.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	85.00	162.39	395.00	559.03	149.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.73	1.40 .05		4.83 4.00	1.29 4.50	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	SEP DEC	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 40.00	61.00 46.00	86.00 45.00	76.00 46.00	84.00 50.00	66
67	AT OUTFALL, SUMMER - WINTER	107.00 60.00	91.00 77.00	97.00 67.00	98.00 65.00	96.00 67.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	6,000.00	24,000.00	13,471.00	110,700.00	10,580.00	68
69	- WINTER	10,000.00	27,000.00	103,174.00	110,700.00	10,580.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]	H					70
71	CHEMICAL ADDITIVES: "MOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.73	.20	1.01	1.05	.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.55		347.15	.65	.45	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		29.50			9.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					9.50	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			6.00 .66	.50	.10	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES		YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST	77
78	RECEIVING WATER BODY		R MISSOURI	R OHIO			78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		9.20 9.80		9.50	9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		15.30				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		125,000.00		45,195.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 57.45	1 240.00	2 120.00	3 496.00	1 80.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1964	1965	1939 1941	1969 1971	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 15.70	27.00		18.00	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	107.00	162.64	450.00	2,301.00	172.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	107.00	167.10	737.00	538.00	172.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		999.00		2,324.10	1,073.25	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.40	8.90				95
96	COST OF CHEMICAL ADDITIVES ($1,000)			.69	.01	.02	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.60	16.80				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.60	12.40	19.91	5.80	1.69	98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.		
NAME OF PLANT	EDGAR	L STREET	MYSTIC	NEW BOSTON	PILGRIM		
UTILITY-PLANT CODE	048500-0100	048500-0200	048500-0300	048500-0400	048500-0450		
STATE	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS		
COUNTY	NORFOLK	SUFFOLK	MIDDLESEX	SUFFOLK	PLYMOUTH		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	119 01	119 01	119 01	119 01	120 01		
PLANT CAPACITY (MW)	300.00	115.00	618.00	717.70	1,998.00		
ANNUAL GENERATION (MWH) 3/	1,263,400	251,100	2,615,000	4,503,400	283,200		
PLANT HEAT RATE (BTU/KWH) 3/	11,117	18,751	10,927	9,422	10,345		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	2,282.50	764.00	4,681.50	6,950.70		
AVERAGE HEAT CONTENT (BTU/GAL)	146,506	140,764	145,484	145,340		
AVERAGE SULFUR CONTENT (%)	.94	.44	.49	.44		
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	9	6	2		
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	3	9	6			
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	24.00	20.00 29.00	13.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	95.00	80.00 90.00	95.00			
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH			90.00			
TESTED, LOW - HIGH			90.00			
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.02	.32	.04	1.17		
SULFUR DIOXIDE (1,000 TONS)	7.20	1.13	7.70	10.26		
NITROGEN OXIDES (1,000 TONS)	5.03	1.68	10.32	15.33		
STACKS: - TOTAL NO.	5	3	5	4		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	250.00	266.00	260.00 285.00	250.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.10		.29	1.53		
TOTAL ASH: COLLECTED (1,000 TONS) 10/	.21	.01	.20	.24		
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	574.40	585.80	1,595.00			
COMBINATION PRECIPITATORS ($1,000) 14/						
DESULFURIZATION SYSTEMS ($1,000)			4,000.00			
STACKS ($1,000)	192.04	87.51	471.58	356.40		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.20	1.80	4.60			
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	2.20	1.80	4.60			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	A WEYMOUTH FORE	O BOSTON HARBOR	M MYSTIC	H BOSTON	B CAPE COD	
AVERAGE RATE OF WITHDRAWAL (CFS)	312.70		574.60	604.80	273.00	
AVERAGE RATE OF DISCHARGE (CFS)	312.70		574.60	604.80	273.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 24/	2.69			5.20	2.35	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68.00 47.00	75.00 42.00	75.00 46.00	75.00 42.00	47.20	
AT OUTFALL, SUMMER - WINTER	92.00 61.00	91.00 58.00	92.00 63.00	91.00 58.00	72.20	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	TIDAL	TIDAL	TIDAL	383.00	
- WINTER	TIDAL	TIDAL	TIDAL	TIDAL	644.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/					H	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.55	1.84	2.56			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	183.18	234.94	139.80	234.94		
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.24	.16	.74	.91	13.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	PS	ST	
RECEIVING WATER BODY						
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)	9 404.61	3 155.00		2 760.00	1 1,998.00	
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION 21/			6 537.50			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1954	1919 1921	1943 1961	1965 1967	1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	9.60 14.60	22.80	14.30 19.10	15.80 16.20	29.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	889.00	230.40	602.30	757.50	692.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	750.00	178.00	705.00	1,348.00	692.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,299.53		2,172.05	1,476.90	4,110.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)			109.24		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	53.60	3.00	158.30	59.80	64.90
COST OF CHEMICAL ADDITIVES ($1,000)	16.90	2.30	10.20	13.10	7.60

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	123.90	127.00	126.40	86.00	2.80
COST OF CHEMICAL ADDITIVES ($1,000)	41.60	55.80	37.20	50.40	.40

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	BRAZOS ELECTRIC POWER COOP INC.	BRAZOS ELECTRIC POWER COOP INC.	BURBANK PUBLIC SERVICE DEPT	CAJUN ELECTRIC POWER COOP	CAMBRIDGE ELEC. LIGHT CO.	
NAME OF PLANT	NORTH TEXAS	MILLER	BURBANK	BIG CAJUN #1	KENDALL SQUARE	
UTILITY-PLANT CODE	052000-0100	052000-0200	059000-0100	002750-0100	065000-0200	
STATE	TEXAS	TEXAS	CALIFORNIA	LOUISIANA	MASS.	
COUNTY	PARKER	PALO PINTO	LOS ANGELES	POINTE COUPEE	MIDDLESEX	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	215 12	215 12	024 18	106 08	119 01	
PLANT CAPACITY (MW)	75.00	188.00	185.00	230.00	67.45	
ANNUAL GENERATION (MWH) 3/	301,000	740,500	710,300	936,900	344,400	
PLANT HEAT RATE (BTU/KWH) 3/	12,143	10,617	11,257	10,691	15,706	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	47.86	17.84	608.70	9.70	620.00	
AVERAGE HEAT CONTENT (BTU/GAL)	144,500	138,439	147,800	139,100	146,364	
AVERAGE SULFUR CONTENT (%)	.50	.50	.23	.10	.46	
GAS: CONSUMPTION (1,000 MCF)	9,132.97	7,389.40	3,224.70	9,334.00	1,647.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,105	1,063	1,059	1,067	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	2	7	2	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			6			
- NO. WITH ELECTROSTATIC PRECIPITATORS					3	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		8.00	12.60 15.00	8.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST(MATED, LOW - HIGH			23.00 40.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.06		.10		.10	
SULFUR DIOXIDE (1,000 TONS)					1.64	
NITROGEN OXIDES (1,000 TONS)	1.30	1.40	2.21	1.84	1.69	
STACKS: - TOTAL NO.	3	2	6	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	68.00 79.50	66.00 145.50	66.00 150.00	165.00	175.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					.04	
TOTAL ASH: COLLECTED (1,000 TONS) 10/					.05	
SOLD (1,000 TONS) 11/					.05	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			61.00			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	31.90	68.00	114.00		44.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					2.00	
REVENUES FROM SALE OF ASH ($1,000)					2.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					12.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					2.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L WEATHERFORD	L PALO PINTO	M	O DEEP WELL	- CHARLES	
AVERAGE RATE OF WITHDRAWAL (CFS)		148.30	2.90	7.90	110.00	
AVERAGE RATE OF DISCHARGE (CFS)		128.30	1.20	3.13	110.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/		1.10	1.70	7.90	.95	
PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG NOV			JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		88.00 57.00	78.00 70.00			
AT OUTFALL, SUMMER - WINTER		95.00 81.00	80.00 72.00		95.00 52.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		267.05			100.00	
- WINTER		125.70			200.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/	C		H			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.01	.05 .16	1.15	.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		11.50	67.81	35.05	50.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP		10.90			2.25	
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.03	35.00	1.30	1.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP		YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 18/	ST	ST	PS		PS	
RECEIVING WATER BODY						
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	9.60	9.80				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	216.00	287.31				
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 75.00	2 188.00			3 75.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)			6 169.00	2 230.00		
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1963	1968 1972	1949 1964	1971	1949 1957	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00	13.40 15.50	16.00	17.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	142.40	312.00	499.30	33.60	121.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	133.00	312.00			110.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	399.60	586.00			100.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)				512.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			14.52		24.30	
COST OF CHEMICAL ADDITIVES ($1,000)			32.33		.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			6.27		90.40	
COST OF CHEMICAL ADDITIVES ($1,000)		5.90	4.40		10.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CAROINAL OPERATING CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.		
NAME OF PLANT	CAROINAL	ASHEVILLE	CAPE FEAR	ROBINSON	LEE		
UTILITY-PLANT CODE	070000-0100	072000-0100	072000-0300	072000-0400	072000-0500		
STATE	OHIO	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA		
COUNTY	JEFFERSON	BUNCOMBE	CHATHAM	DARLINGTON	WAYNE		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	181 05	171 06	166 03	201 03	170 03		
PLANT CAPACITY (MW)	1,230.50	413.64	420.98	206.60	402.45		
ANNUAL GENERATION (MWH)[3]	7,150,000	2,307,500	2,118,500	695,800	2,170,600		
PLANT HEAT RATE (BTU/KWH)[3]	9,000	9,585	9,959	10,588	10,094		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,857.00	901.69	857.80	247.48	828.20		
AVERAGE HEAT CONTENT (BTU/LB)	11,246	12,219	12,223	12,562	12,729		
AVERAGE SULFUR CONTENT (%)	3.19	1.36	1.35	1.03	1.10		
AVERAGE ASH CONTENT (%)	16.60	9.70	10.10	10.52	9.50		
AVERAGE MOISTURE CONTENT (%)	6.46	6.88	5.70	5.29	6.50		
OIL: CONSUMPTION (1,000 BARRELS)	53.70	13.86	9.24	21.50	16.87		
AVERAGE HEAT CONTENT (BTU/GAL)	134,500	139,379	139,320	138,416	138,248		
AVERAGE SULFUR CONTENT (%)	.10	.08	.08	.08	.08		
GAS: CONSUMPTION (1,000 MCF)				990.60	700.40		
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,034	1,039		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	10	1	3		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS			4	1	3		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	1					
- NO. WITH COMBINATION PRECIPITATORS[4]		1					
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	18.00 20.00	20.00 40.00	20.00	20.00 25.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00	85.00	85.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH			70.00 80.00	80.00	80.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	95.00 99.00					
TESTED, LOW - HIGH		95.60 99.70					
EST., LOW - HIGH	92.00	95.60 99.70					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	32.25	1.67	15.31	4.43	(3.38		
SULFUR DIOXIDE (1,000 TONS)	179.41	24.04	22.70	5.00	17.86		
NITROGEN OXIDES (1,000 TONS)	25.86	8.12	7.72	2.42	7.59		
STACKS: - TOTAL NO.	2	2	4	1	2		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	825.00	392.00	148.00 275.00	250.00	200.00 300.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	443.40	85.90	72.20	21.90	66.10		
SOLD (1,000 TONS)[11]	79.30						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			200.80	89.60	222.80		
ELECTROSTATIC PRECIPITATORS ($1,000)	2,702.00	525.00					
COMBINATION PRECIPITATORS ($1,000)[4]		508.00					
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	3,142.00	505.20	168.10	105.60	200.60		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		92.90	62.00	33.00	123.00		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		92.90	62.00	33.00	123.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R FRENCH BROAD	R CAPE FEAR	L BLACK	R NEUSE		
AVERAGE RATE OF WITHDRAWAL (CFS)	1,782.00	(.40	400.00	1,262.00	598.50		
AVERAGE RATE OF DISCHARGE (CFS)	1,782.00	2.50	400.00	1,262.00	598.50		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	15.33						
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.70 43.20	75.00 40.00	86.00 42.00	87.00 62.00	80.00 53.00		
AT OUTFALL, SUMMER - WINTER	98.80 56.90	94.00 59.00	104.00 82.00	87.00 62.00	83.00 66.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	16,600.00	1,430.00	1,313.00	135.00	1,332.00		
- WINTER	111,600.00	3,119.00	10,474.00	336.00	6,840.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]				C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.64	2.25	5.86	3.25		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	24.50			83.57			
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP			36.50		49.50		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	87.50 1.35		1.83	7.00	2.78		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	ST				
RECEIVING WATER BODY	R OHIO		R CAPE FEAR	L ROBINSON	R NEUSE		
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	8.00	8.00	8.40	7.00	9.70		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	10.00	75.00	40.00	50.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING		60,000.00	40,000.00	20,000.00	30,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 1,180.00		4 92.60				
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)		2 392.68		2 975.32			
COOLING TOWER(S)							
COMBINATION[21]			2 328.46		3 402.45		
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967	1963	1923 1958	1960	1951 1962		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.60	17.00	15.00 21.00	20.00 22.40	17.00 23.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,617.40	456.00	598.00	1,254.00	612.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,782.00		598.00		612.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,307.00		1,985.50		1,976.40		
COOLING PONDS ($1,000)		2,732.00		4,800.00	1,308.00		
COOLING TOWERS ($1,000)			65.00		36.50		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		77.54	73.00	4.00	1,629.00		
COST OF CHEMICAL ADDITIVES ($1,000)	5.90	4.08			3.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		22.00	15.50	5.00	16.00		
COST OF CHEMICAL ADDITIVES ($1,000)	6.80	.71	5.00	9.00	6.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CENTRAL HUDSON GAS & ELECTRIC CO.	CENTRAL ILLINOIS P.S. CO.	
NAME OF PLANT	ROXBORO	SUTTON	WEATHERSPOON	DANSKAMMER	COFFEEN	
UTILITY-PLANT CODE	072000-0900	072000-1000	072000-1300	077000-0100	076500-0100	
STATE	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	NEW YORK	ILLINOIS	
COUNTY	PERSON	NEW HANOVER	ROBESON	ORANGE	MONTGOMERY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	166 03	170 03	169 03	161 02	075 07	
PLANT CAPACITY (MW)	1,067.85	671.62	165.50	531.91	1,005.46	
ANNUAL GENERATION (MWH)[3]	6,425,200	2,081,200	806,400	3,227,000	1,968,900	
PLANT HEAT RATE (BTU/KWH)[3]	9,461	11,013	11,103	9,944	10,369	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,437.60	171.73	230.60		1,113.00	
AVERAGE HEAT CONTENT (BTU/LB)	12,441	12,054	12,738		9,227	
AVERAGE SULFUR CONTENT (%)	1.40	1.06	1.00		3.83	
AVERAGE ASH CONTENT (%)	12.30	12.66	9.58		16.44	
AVERAGE MOISTURE CONTENT (%)	4.30	4.63	5.97		15.12	
OIL: CONSUMPTION (1,000 BARRELS)	23.27	2,780.40	7.28	5,169.00	3.00	
AVERAGE HEAT CONTENT (BTU/GAL)	139,422	150,264	137,891	147,386	138,788	
AVERAGE SULFUR CONTENT (%)	.08	2.10	.08	1.57	.40	
GAS: CONSUMPTION (1,000 MCF)		1,198.59	2,921.40	78.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,042	1,040	1,016		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	3	4	2	
- NO. OF WET BOTTOM		2			2	
- NO. WITH FLY ASH REINJECTION					2	
- NO. WITH MECHANICAL PRECIPITATORS	2	2	3			
- NO. WITH ELECTROSTATIC PRECIPITATORS				4	1	
- NO. WITH COMBINATION PRECIPITATORS[4]		1				
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	5.00 24.00	20.00	15.00	16.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	85.00 86.00	85.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	80.00	80.00	80.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.00		98.00	99.00	
TESTED, LOW - HIGH				98.00 98.70		
EST., LOW - HIGH		97.00		75.00	99.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	50.97	2.88	3.76	.07	.23	
SULFUR DIOXIDE (1,000 TONS)	66.89	23.16	4.52	20.01	64.85	
NITROGEN OXIDES (1,000 TONS)	21.94	8.94	2.65	11.41	30.53	
STACKS: - TOTAL NO.	2	2	2	4	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	399.00	200.00 552.50	200.00	220.00 440.00	350.00 500.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.07		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	251.90	18.30	18.50	.59	156.40	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	370.70	139.50	90.60			
ELECTROSTATIC PRECIPITATORS ($1,000)				2,973.00	3,029.00	
COMBINATION PRECIPITATORS ($1,000)[4]		2,580.00				
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	541.40	1,061.50	78.40	516.00	715.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	174.00	44.00	68.00	95.00	141.60	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	174.00	107.00	68.00	315.00	141.60	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C HYCO	R CAPE FEAR	J LUMBER	P HUDSON	O MCDAVID BR.	
AVERAGE RATE OF WITHDRAWAL (CFS)	900.00	5.96	170.20	600.00		
AVERAGE RATE OF DISCHARGE (CFS)	900.00		170.20	600.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		5.96		5.16		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	JUL DEC	SEP FEB	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 54.00		80.00 56.00	78.00 38.00		
AT OUTFALL, SUMMER - WINTER	119.00 85.00		88.00 63.00	93.00 59.00	89.00 45.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	18.20		558.00			
- WINTER	621.00		1,966.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	C					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00		3.37	.50		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01			64.55	277.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP					38.40	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.00			5.50		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	8.50 1.00			24.40	76.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES		YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST		OT	OT	
RECEIVING WATER BODY	L RCXBORO			P HUDSUN	O MCDAVID BR.	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	8.50	7.10	7.50	7.00	7.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	40.00	65.00	50.00		10.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	80,000.00	93,000.00	10,000.00	49,000.00	76,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 531.91		
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)	2 1,067.85	3 671.60			2 1,004.96	
COOLING TOWER(S)			3 165.50			
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1972	1949 1952	1951 1967	1965 1972	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	25.40 25.50	18.00 19.60	14.00 16.70	14.03 14.99	19.00 21.95	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	870.00	830.00	269.00	686.00	817.40	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		271.40	297.90	686.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		807.20	1,050.30	3,603.00	
COOLING PONDS ($1,000)	5,653.30	7,000.00	475.50		1,574.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	59.00	108.00	53.30	75.00	2.30
COST OF CHEMICAL ADDITIVES ($1,000)	1.10	6.30	8.80	16.00	8.60

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.50	8.00	8.90	225.00	45.40
COST OF CHEMICAL ADDITIVES ($1,000)	8.00	3.10	2.00	30.00	71.50

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	GRAND TOWER	HUTSONVILLE	MEREDOSIA	EDWARDS	KEYSTONE	4
5	UTILITY-PLANT CODE	078500-0200	078500-0300	078500-0400	079000-0100	079000-0200	5
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	6
7	COUNTY	JACKSON	CRAWFORD	MORGAN	PEORIA	PEORIA	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	074 07	074 05	075 07	065 07	065 07	8
9	PLANT CAPACITY (MW)	179.60	200.00	354.36	769.00	50.00	9
10	ANNUAL GENERATION (MWH) 3/	959,500	952,000	1,840,300	2,965,400	134,900	10
11	PLANT HEAT RATE (BTU/KWH) 3/	10,522	10,917	10,243	9,877	21,438	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	445.60	458.10	861.80	1,404.44			12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,313	11,266	10,879	10,385			13
14	AVERAGE SULFUR CONTENT (%)	3.01	1.99	2.98	2.34			14
15	AVERAGE ASH CONTENT (%)	12.24	9.83	8.25	8.93			15
16	AVERAGE MOISTURE CONTENT (%)	9.63	12.67	15.76	17.94			16
17	OIL: CONSUMPTION (1,000 BARRELS)	2.30	12.40	17.10	9.25			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,091	136,642	138,345	137,600			18
19	AVERAGE SULFUR CONTENT (%)	.52	.26	.40	.10			19
20	GAS: CONSUMPTION (1,000 MCF)					2,892.34		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	9	6	5	3	4		22
23	- NO. OF WET BOTTOM				2			23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS					4		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	1	1	3			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00 30.00	22.00 25.00	25.00	16.00 20.00	25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					60.00		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	97.10	97.50	97.00	97.00 99.00			33
34	TESTED, LOW - HIGH	97.70 98.70	99.20 99.50	94.70 99.60				34
35	EST., LOW - HIGH	98.00	99.00	95.00 99.00	98.00 99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.40	4.15	2.36	1.09			39
40	SULFUR DIOXIDE (1,000 TONS)	26.29	18.05	51.01	64.96			40
41	NITROGEN OXIDES (1,000 TONS)	4.02	4.17	7.84	18.31	.56		41
42	STACKS: - TOTAL NO.	5	4	5	2	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	155.00 301.00	197.00	201.70 300.00	500.00 503.00	91.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	54.40	44.90	70.70	150.23			45
46	SOLD (1,000 TONS) 11/							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,239.00	1,017.00	687.00	1,770.21			51
52	COMBINATION PRECIPITATORS ($1,000) 4/							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	89.00	89.10	110.00	2,946.24	24.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	63.80	108.60	40.60	160.00			55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	63.80	108.60	40.60	160.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R WABASH	R ILLINOIS	R ILLINOIS	R ILLINOIS		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	336.00	220.00	280.00	560.00	55.30		62
63	AVERAGE RATE OF DISCHARGE (CFS)	336.00	220.00	280.00	560.00	55.30		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.89	1.89	2.41	4.82	.48		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	JUL JAN	JUN DEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 38.00	81.00 40.30	82.00 37.00	81.00 38.00	88.00 42.00		66
67	AT OUTFALL, SUMMER - WINTER	93.00 62.00	97.00 61.00	95.00 63.00	96.00 65.00	105.00 63.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	146,000.00	6,000.00	14,626.00	22,000.00	22,000.00		68
69	- WINTER	93,500.00	11,900.00	16,779.00	22,500.00	22,500.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O16/				C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	1.30	.75		2.57		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	25.00	.01	34.50	199.28	66.65		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	10.00 30.50	16.50	39.00	62.20	68.07		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	27.50 .35		27.00	.29	.89		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.75	30.00	62.50	24.00	6.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT	OT	SW	ST	ST		77
78	RECEIVING WATER BODY	R MISSISSIPPI	R WABASH	R ILLINOIS				78
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING	9.80 8.50	10.30 7.50	9.30 7.80	10.00 9.20	11.00 8.40		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	39.00	100.00 124.00	400.00	518.00	5.00 500.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	11,500.00	146.40	12,000.00	1,250.00	103.00		81
82	- ASH SETTLING	33,000.00	103,347.00	32,000.00	135,000.00	44.91		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4 232.60	4 212.50	3 354.40	3 738.00	4 54.35		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1958	1940 1954	1948 1960	1960 1972	1918 1956		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	8.60 15.15	16.40 20.70	9.50 16.00	17.16 20.00	15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	511.00	400.00	605.00	883.82	155.74		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	492.00	400.00	605.00	1,090.60	155.70		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,705.00	278.10	313.50	2,800.00	640.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	65.00	36.20	8.00	46.80	13.96		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	4.10	6.10	6.90	2.54	.64		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.20	69.30	40.10	70.23	53.25		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.20	6.50	12.10	29.83	10.91		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CENTRAL ILLINOIS LIGHT CO.	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL MAINE PWR CO.	CENTRAL MAINE PWR CO.	
4	NAME OF PLANT	WALLACE	COUGHLIN	TECHE	MASON	WYMAN	
5	UTILITY-PLANT CODE	079000-0400	080000-0200	080000-1000	080500-1600	080500-2700	
6	STATE	ILLINOIS	LOUISIANA	LOUISIANA	MAINE	MAINE	
7	COUNTY	TAZEWELL	EVANGELINE	ST MARY	LINCOLN	CUMBERLAND	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	065 07	106 08	106 08	107 01	110 01	
9	PLANT CAPACITY (MW)	305.00	483.28	427.90	147.00	214.00	
10	ANNUAL GENERATION (MWH)[3]	1,374,200	1,826,600	1,782,900	830,100	1,638,300	
11	PLANT HEAT RATE (BTU/KWH)[3]	12,391	10,976	10,289	10,429	10,429	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	550.48					
13	AVERAGE HEAT CONTENT (BTU/LB)	10,613					
14	AVERAGE SULFUR CONTENT (%)	2.57					
15	AVERAGE ASH CONTENT (%)	7.63					
16	AVERAGE MOISTURE CONTENT (%)	17.38					
17	OIL: CONSUMPTION (1,000 BARRELS)	.34	143.57		1,764.60	2,742.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,600	138,068		147,750	148,460	
19	AVERAGE SULFUR CONTENT (%)	.10	.20		2.08	2.16	
20	GAS: CONSUMPTION (1,000 MCF)	5,313.06	17,640.66	17,236.65			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,089	1,064			

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	7	3	7	3	
23	- NO. OF WET BOTTOM				3		
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	2			5	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4					
27	- NO. WITH COMBINATION PRECIPITATORS[4]				2		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	8.00 10.00	8.00 16.00	18.00	10.00 12.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	60.00			86.00	85.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	85.00			40.00	40.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00 98.00			95.00		
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH	95.00 97.00			96.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.36	.02		.09	.26	
40	SULFUR DIOXIDE (1,000 TONS)	27.95	.10		12.24	19.67	
41	NITROGEN OXIDES (1,000 TONS)	5.99	3.72	3.37	3.89	6.04	
42	STACKS: - TOTAL NO.	5	7	3	7	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	195.00	76.50 119.00	76.60 164.00	126.00 149.00	166.00 194.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.02	.23	
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	41.68			.10	.22	
46	SOLD (1,000 TONS)[11]	8.84				.02	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	38.00			79.90	180.80	
51	ELECTROSTATIC PRECIPITATORS ($1,000)	436.70			7		
52	COMBINATION PRECIPITATORS ($1,000)[4]				107.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	42.60			237.90	390.50	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	144.40					
56	REVENUES FROM SALE OF ASH ($1,000)	13.38				1.20	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	144.46					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	13.38				1.20	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ILLINOIS	O BAYOU COCODRIE	O CHARNTON CANAL		S CASCO	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	313.00	32.76	251.00	196.27	164.90	
63	AVERAGE RATE OF DISCHARGE (CFS)	313.00	16.76	251.00	196.18	164.80	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.69	16.00	2.16	1.09 .09	1.42 .10	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG FEB	AUG FEB	JUL OEC	JUL OEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 41.00	85.20 65.70	95.00 68.00	65.00 45.00	64.00 41.00	
67	AT OUTFALL, SUMMER - WINTER	111.00 88.00	91.50 67.60	117.00 103.00	90.00 68.00	95.00 87.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	22,000.00	118.00				
69	- WINTER	22,500.00	682.00				
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	3.60 .40	.11 .10	2.15	.65	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	126.38	50.80	56.51	14.75		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	41.25					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.10	10.15		12.20 5.80		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	86.00	2.70	.09			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	OT	ST	ST	
78	RECEIVING WATER BODY		O BAYOU COCODRIE	O CHARNTON CANAL	8 SHEEPSCOTT	8 CASCO	
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.00 8.90			65.00	6.60	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	550.00 579.00			179.00	240.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	191.92					
82	- ASH SETTLING	97,719.55					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 349.30	1 25.30	3 427.90			
84	ONCE THROUGH COOLING (SALINE)				5 139.00	3 209.18	
85	COOLING POND(S)		6 458.28				
86	COOLING TOWER(S)						
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1958	1952 1971	1953 1971	1942 1955	1957 1965	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00	10.00 22.00	15.00 26.00	13.00 24.00	15.50 20.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	641.65	562.10	371.60	262.10	251.60	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	730.35	126.90	371.60	262.10	251.60	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,355.00			1,362.50	1,411.20	
93	COOLING PONDS ($1,000)		1,000.00				
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	65.34					
96	COST OF CHEMICAL ADDITIVES ($1,000)	9.47	5.40	.90	3.00	1.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	79.97					
98	COST OF CHEMICAL ADDITIVES ($1,000)	16.08	8.90	7.30	6.80	14.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CENTRAL OPERATING CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	
NAME OF PLANT	SPORN	BATES	LAREDO	HILL	NUECES BAY	
UTILITY-PLANT CODE	081000-0100	082000-0200	082000-0300	082000-0400	082000-0500	
STATE	WEST VIRGINIA	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	MASON	HIDALGO	WEBB	NUECES	NUECES	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	103 OS	213 13	213 13	214 12	214 12	
PLANT CAPACITY (MW)	1,105.60	188.70	72.00	574.20	595.50	
ANNUAL GENERATION (MWH)[3]	6,343,000	945,600	341,400	2,229,100	1,676,400	
PLANT HEAT RATE (BTU/KWH)[3]	9,497	11,039	13,064	10,400	9,997	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,655.60					
AVERAGE HEAT CONTENT (BTU/LB)	11,279					
AVERAGE SULFUR CONTENT (%)	1.87					
AVERAGE ASH CONTENT (%)	15.06					
AVERAGE MOISTURE CONTENT (%)	7.84					
OIL: CONSUMPTION (1,000 BARRELS)	67.40	1.31	.09	.84	59.00	
AVERAGE HEAT CONTENT (BTU/GAL)	137,000	140,000	140,000	140,000	140,000	
AVERAGE SULFUR CONTENT (%)	.10	.70	.70	.70	.70	
GAS: CONSUMPTION (1,000 MCF)		9,976.00	4,133.00	22,724.00	16,366.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,045	1,079	1,020	1,020	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	2	4	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	4					
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	5.00 7.00	8.00	5.00 7.00	7.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00					
TESTED, LOW - HIGH	71.00 77.80					
ESTIMATED, LOW - HIGH	85.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00					
TESTED, LOW - HIGH	70.40					
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	71.07				.01	
SULFUR DIOXIDE (1,000 TONS)	97.49				.14	
NITROGEN OXIDES (1,000 TONS)	23.71	1.95	.81	4.43	3.32	
STACKS: - TOTAL NO.	2	2	2	5	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	600.00 601.50	149.00	110.00	149.00	136.00 177.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	345.50					
SOLD (1,000 TONS)[11]	.09					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF AC10 COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF AC10 SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	1,160.00	137.20	20.70	330.60	214.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	O IRRIG. DIST.	R RIO GRANDE	M	O SHIP CHANNEL	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,500.00	3.81	1.41	5.10	460.30	
AVERAGE RATE OF DISCHARGE (CFS)	1,500.00	.67	.25	1.00	460.30	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	12.90	3.14	1.16	4.10	2.96	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC				AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 44.00				90.00 59.00	
AT OUTFALL, SUMMER - WINTER	95.00 55.00				103.00 67.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	15,000.00					
- WINTER	62,000.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	.09	.13	.30	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.10	141.33		35.70	117.28	
LIME (TONS), COOLING WATER - BOILER MAKEUP	9.00	15.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	64.00	10.00	3.00	16.00	180.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	4.20					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	161.00					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	76,600.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 1,105.60					
ONCE THROUGH COOLING (SALINE)					S 595.50	
COOLING PONDS(S)						
COOLING TOWER(S)		2 188.70	2 72.00	4 574.20		
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1960	1958 1960	1951 1955	1954 1969	1942 1972	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.20 12.60	16.40 16.90	15.50	16.40 22.20	13.30 17.70	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,561.60	200.00	120.00	685.00	841.20	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,607.00				841.20	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					3,397.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		1,794.00	759.00	3,625.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		36.50	10.70	64.20	50.10	
COST OF CHEMICAL ADDITIVES ($1,000)	2.10	14.60	7.90	11.70	6.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		1.80	1.70	6.30	17.10	
COST OF CHEMICAL ADDITIVES ($1,000)	15.50	11.20	2.10	6.50	14.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL TELE & UTIL. CORP - P&P DIV.	CENTRAL TELE & UTIL. CORP - P&P DIV.
NAME OF PLANT	LA PALMA	VICTORIA	JOSLIN	CIMARRON RIVER	LARGE
UTILITY-PLANT CODE	082000-0600	082000-0700	082000-0800	082500-0100	082500-0300
STATE	TEXAS	TEXAS	TEXAS	KANSAS	KANSAS
COUNTY	CAMERON	VICTORIA	CALHOUN	SEWARD	FORD
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	214 13	213 12	214 19	100 11	100 11
PLANT CAPACITY (MW)	230.00	553.50	261.00	50.00	175.50
ANNUAL GENERATION (MWH)[3]	1,032,800	2,174,700	1,149,400	319,700	625,000
PLANT HEAT RATE (BTU/KWH)[3]	11,045	10,384	9,844	12,465	10,920

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	.12	.44	59.60		37.30	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000		148,761	
AVERAGE SULFUR CONTENT (%)	.70	.70	.70		.29	
GAS: CONSUMPTION (1,000 MCF)	10,796.00	21,604.00	10,894.00	3,663.00	7,073.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,055	1,039	1,045	1,024	933	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7		4		1		1				5	
- NO. OF WET BOTTOM												
- NO. WITH FLY ASH REINJECTION												
- NO. WITH MECHANICAL PRECIPITATORS												
- NO. WITH ELECTROSTATIC PRECIPITATORS												
- NO. WITH COMBINATION PRECIPITATORS[4]												
- NO. WITH DESULFURIZATION SYSTEMS												
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00	15.00	9.00	8.00	6.00		5.00	8.00	15.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH												
TESTED, LOW - HIGH												
ESTIMATED, LOW - HIGH												
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH												
TESTED, LOW - HIGH												
EST., LOW - HIGH												
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH												
TESTED, LOW - HIGH												
ESTIMATED, LOW - HIGH												

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)				.01			.01	
SULFUR DIOXIDE (1,000 TONS)				.14			.05	
NITROGEN OXIDES (1,000 TONS)	2.11		4.21	2.26	.71		1.46	
STACKS: - TOTAL NO.	5		4	1	1		3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	85.00 149.50		149.00	149.00	90.50	80.00	152.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]								
TOTAL ASH: COLLECTED (1,000 TONS)[10]								
SOLD (1,000 TONS)[11]								
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]								
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)								
ELECTROSTATIC PRECIPITATORS ($1,000)								
COMBINATION PRECIPITATORS ($1,000)[4]								
DESULFURIZATION SYSTEMS ($1,000)								
STACKS ($1,000)	218.00		188.00	95.00	17.00		58.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)								
REVENUES FROM SALE OF ASH ($1,000)								
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]								
TOTAL BYPRODUCT SALES REVENUES ($1,000)								

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R GUADALUPE	B COX	"	"			
AVERAGE RATE OF WITHDRAWAL (CFS)	3.15	241.70	279.10	1.00	4.30			
AVERAGE RATE OF DISCHARGE (CFS)	.90	238.40	279.10	.30	2.90			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.25	3.30	2.40	.70	1.40			
PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG DEC	AUG DEC	JUL DEC	JUL DEC			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		89.00 59.00	90.00 62.00					
AT OUTFALL, SUMMER - WINTER		91.00 63.00	107.00 70.00	88.00 83.00	84.00 77.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			TIDAL .					
- WINTER			TIDAL					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]								
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	.42	.25	5.81 .02	.55 .06			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	35.17	21.12	34.31	6.32	2.48			
LIME (TONS), COOLING WATER - BOILER MAKEUP								
ALUM (TONS), COOLING WATER - BOILER MAKEUP								
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.00	10.00	72.00	2.20	8.05			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES YES	YES YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	S*	ST	ST			
RECEIVING WATER BODY			B COX					
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING								
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING								
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN								
- ASH SETTLING								

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)							2 12.00	
ONCE THROUGH COOLING (SALINE)				1 261.00				
COOLING POND(S)								
COOLING TOWER(S)	6 230.00	4 298.50			1 50.00		2 167.50	
COMBINATION[21]		2 255.00						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1926 1970	1952 1968		1971	1963		1932 1969	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST[22]	11.50 16.10	13.90 22.60		15.00	10.60		10.30 20.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	379.80	622.70		325.00	93.60		242.34	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		288.40		258.00			13.40	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						8.00
COOLING PONDS ($1,000)		383.00	1,622.00			
COOLING TOWERS ($1,000)	109.00	2,247.00		299.00	970.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	117.80	28.40	45.60	14.00	11.00	
COST OF CHEMICAL ADDITIVES ($1,000)	21.20	38.00	10.40	7.00	15.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.60	3.60	3.20	9.00	11.00	
COST OF CHEMICAL ADDITIVES ($1,000)	7.80	6.90	53.30	2.00	2.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CENTRAL TELE & UTIL. CORP - W	CENTRAL TELE & UTIL. CORP. - SJ.	CENTRAL TELE & UTIL. CORP. - SO.	CITY OF AUSTIN E DEPT.	CITY OF AUSTIN E DEPT.	
NAME OF PLANT	PWR DIV.	COLO. PWR. DIV.	COLO. PWR. DIV.			
UTILITY-PLANT CODE	MULLERGREN	PUEBLO	CLARK	HOLLY STREET	SEAHOLM	
STATE	082500-0600	082500-1000	082500-1200	089500-0100	089500-0200	
COUNTY	KANSAS	COLORADO	COLORADO	TEXAS	TEXAS	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	BARTON	PUEBLO	FREMONT	TRAVIS	TRAVIS	
PLANT CAPACITY (MW)	097 11	038 11	038 11	212 12	212 12	
ANNUAL GENERATION (MWH) 3/	119.10	32.25	43.75	416.00	125.00	
PLANT HEAT RATE (BTU/KWH) 3/	591,900	188,100	313,100	1,358,400	417,800	
	10,604	13,926	13,048	10,724	13,473	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		2.37	81.80			
AVERAGE HEAT CONTENT (BTU/LB)		10,000	9,977			
AVERAGE SULFUR CONTENT (%)		.70	.70			
AVERAGE ASH CONTENT (%)		15.00	16.25			
AVERAGE MOISTURE CONTENT (%)		11.00	10.97			
OIL: CONSUMPTION (1,000 BARRELS)	4.96	4.19		93.45	13.27	
AVERAGE HEAT CONTENT (BTU/GAL)	151,000	142,000		147,500	147,500	
AVERAGE SULFUR CONTENT (%)	.31	.30		1.00	1.00	
GAS: CONSUMPTION (1,000 MCF)	6,559.00	2,957.70	2,500.70	13,989.83	5,546.66	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	952	846	981	1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	5	2	3	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			2			
- NO. WITH MECHANICAL PRECIPITATORS		5	2			
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	12.00 15.00	12.50 30.00	24.00	10.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		93.30	88.00 93.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		93.00	93.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.04		.01		
SULFUR DIOXIDE (1,000 TONS)	.01	.04	1.12	.16	.04	
NITROGEN OXIDES (1,000 TONS)	1.29	.61	1.10	2.83	1.11	
STACKS: - TOTAL NO.	4	2	2	3	5	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	132.00 146.00	150.00 270.00	150.00	154.00 156.00	80.00 120.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/		.36	13.80			
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		12.00	46.00			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	69.00	66.00	66.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		1.50	7.60			
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		1.50	7.60			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	ARKANSAS	ARKANSAS	COLORADO	COLORADO	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.70	45.00	60.00	540.00	210.00	
AVERAGE RATE OF DISCHARGE (CFS)	.60	45.00	59.00	540.00	210.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.10	1.00	1.00	4.64	1.81	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUL DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	72.00 44.00	70.00 39.00	80.00 60.00	75.00 50.00		
AT OUTFALL, SUMMER - WINTER	81.00 69.00	73.00 45.00	71.00 40.00	95.00 70.00	95.00 60.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	800.00	800.00	580.00	350.00		
- WINTER	500.00	500.00	420.00	150.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00 .01	.05	.15	1.25	.41	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	6.44	.35	.10	.01	.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP	56.46					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	1.79					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.27	.25	.50			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST	PS	PS	PS	PS	
RECEIVING WATER BODY						
POND DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (MG/L), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)				3 416.00	5 125.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	3 119.10					
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1963	1922 1949	1955 1958	1960 1966	1951 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	10.30 14.50	9.00 10.00	13.00 16.00	15.00	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	214.58	90.00	72.80	618.00	297.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		90.00	72.80	618.00	297.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		2 [illegible].00	100.00		
COOLING PONDS ($1,000)		50.00	30.00		
COOLING TOWERS ($1,000)	714.00	298.00	73.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	18.00	12.00		
COST OF CHEMICAL ADDITIVES ($1,000)	17.00	.20	.20		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.00	9.60	35.20		
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.00	1.80	8.90	2.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CITY OF AUSTIN ELECTRIC DEPT.	CITY OF LAFAYETTE UTIL. SYSTEM	CITY OF LAFAYETTE UTIL. SYSTEM	CITY P & L DEPT. INDEPENDENCE MO.	CITY P. S. BD. SAN ANTONIO	
4	NAME OF PLANT	DECKER CREEK	BONIN	RODEMACHER	BLUE VALLEY	LEON CREEK	
5	UTILITY-PLANT CODE	089500-0300	094000-0100	094000-0300	099500-0100	100000-0100	
6	STATE	TEXAS	LOUISIANA	LOUISIANA	MISSOURI	TEXAS	
7	COUNTY	TRAVIS	LAFAYETTE	LAFAYETTE	JACKSON	BEXAR	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	212 12	106 08	106 08	094 10	217 12	
9	PLANT CAPACITY (MW)	321.00	143.35	42.65	115.00	263.64	
10	ANNUAL GENERATION (MWH)[3]	846,400	442,600	80,360	481,300	350,900	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,068	10,759	17,658	11,405	11,208	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)				27.40		
13	AVERAGE HEAT CONTENT (BTU/LB)				12,314		
14	AVERAGE SULFUR CONTENT (%)				3.37		
15	AVERAGE ASH CONTENT (%)				11.85		
16	AVERAGE MOISTURE CONTENT (%)				6.15		
17	OIL: CONSUMPTION (1,000 BARRELS)	41.06	25.93	12.96	1.70		
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,000	140,000	140,000	140,000		
19	AVERAGE SULFUR CONTENT (%)	1.00	.10	.10	.50		
20	GAS: CONSUMPTION (1,000 MCF)	8,285.03	4,001.89	1,034.13	4,888.40	3,764.46	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	998	1,035	1,021	983	995	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	2	4	3	4	
23	- NO. OF WET BOTTOM				3		
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS				3		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00	7.00 15.00	3.50 4.00	10.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00 90.30		
31	TESTED, LOW - HIGH				85.00 90.30		
32	ESTIMATED, LOW - HIGH				85.00 90.30		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01			.25		
40	SULFUR DIOXIDE (1,000 TONS)	.14			1.81		
41	NITROGEN OXIDES (1,000 TONS)	1.71	.89	.21	1.37	.73	
42	STACKS: - TOTAL NO.	1	2	3	3	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	88.30	88.00 131.00	62.00 69.20	152.50 250.00	100.00 150.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)				58.80		
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)		13.90	8.30	99.70	69.20	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				7.00		
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]				7.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L DECKER	W	W	W	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	405.00	168.00	101.00	1.50	1.31	
63	AVERAGE RATE OF DISCHARGE (CFS)	405.00	70.00	43.00		.45	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.48	98.00	57.00	1.50	.86	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	SEP FEB	SEP NOV		JUN DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	75.00 70.00	90.00 85.00	98.00 96.50			
67	AT OUTFALL, SUMMER - WINTER	85.00 75.00	98.00 93.00	79.00 76.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		80.00	50.00			
69	- WINTER		50.00	30.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.02	.01	8.75 .04	6.99 .04	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.03	.10	23.23	18.36	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				277.73		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				63.76		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		14.00	4.00	9.75	3.89	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	ST	ST	
78	RECEIVING WATER BODY						
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING				8.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 321.00					
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)		2 143.35	4 45.65	3 115.00	4 263.64	
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970	1965 1970	1951 1960	1958 1965	1949 1959	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	20.00	20.00	15.00 17.00	15.00 17.40	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	387.00	247.00	104.40	199.30	391.90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	387.00					

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		509.21	257.53	325.28	1,113.50	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		8.00	5.00		52.26	
96	COST OF CHEMICAL ADDITIVES ($1,000)		13.70	2.50	17.60	10.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		5.00	4.00		.91	
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.50	20.20	3.30	2.60	3.49	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CITY P. S. BD. SAN ANTONIO	CITY P. S. BD. SAN ANTONIO	CITY P. S. BD. SAN ANTONIO	CITY P.S. BD. SAN ANTONIO	CITY UTIL. OF SPRINGFIELD	
NAME OF PLANT	MISSION ROAD	BRAUNIG	TUTTLE	SOMMERS	JAMES RIVER	
UTILITY-PLANT CODE	100000-0200	100000-0300	100000-0400	100000-0500	101000-0100	
STATE	TEXAS	TEXAS	TEXAS	TEXAS	MISSOURI	
COUNTY	BEXAR	BEXAR	BEXAR	BEXAR	GREENE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	217 12	217 12	217 12	217 12	139 11	
PLANT CAPACITY (MW)	163.64	894.01	493.95	446.40	257.00	
ANNUAL GENERATION (MWH) [3]	290,900	2,868,600	1,329,300	946,100	976,700	
PLANT HEAT RATE (BTU/KWH) [3]	11,610	10,029	10,561	9,915	11,493	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						72.00	
AVERAGE HEAT CONTENT (BTU/LB)						12,583	
AVERAGE SULFUR CONTENT (%)						4.11	
AVERAGE ASH CONTENT (%)						12.57	
AVERAGE MOISTURE CONTENT (%)						4.17	
OIL: CONSUMPTION (1,000 BARRELS)	1.83	91.46	16.74	75.92			
AVERAGE HEAT CONTENT (BTU/GAL)	138,132	137,439	142,014	135,436			
AVERAGE SULFUR CONTENT (%)	.10	.10	1.00	.10			
GAS: CONSUMPTION (1,000 MCF)	3,462.36	28,428.35	13,479.43	8,667.31	9,496.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,026	1,024	1,020	1,032	1,013		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	3	4	1	5		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS					4		
- NO. WITH ELECTROSTATIC PRECIPITATORS					1		
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00	7.00 10.00	10.00	7.00	20.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					87.00	88.00	
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH					87.00	88.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						98.00	
TESTED, LOW - HIGH							
EST., LOW - HIGH						98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.92		.01	.40		
SULFUR DIOXIDE (1,000 TONS)					5.92		
NITROGEN OXIDES (1,000 TONS)	.68	5.75	2.67	1.86	2.51		
STACKS: - TOTAL NO.	2	3	5	1	4		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00	174.00 167.00	143.50 150.00	172.50	200.00	350.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]					10.50		
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)					200.00		
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	35.90	104.50		56.12	422.60		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					9.40		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]					9.40		
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	O SEWAGE EFFLNT.	W	° SAN ANTONIO	L SPRINGFIELD		
AVERAGE RATE OF WITHDRAWAL (CFS)	1.21	10.87	5.13	1.31	303.20		
AVERAGE RATE OF DISCHARGE (CFS)	.41	1.91	1.76	.15	303.20		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.80	4.00	3.37	1.78			
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUN JAN	JUN NOV		AUG DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		83.00 59.00		83.00 59.00	92.00 46.00		
AT OUTFALL, SUMMER - WINTER	85.00 73.00	83.00 65.00	88.00 69.00		92.00 71.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	80.00	605.00		605.00	22.00		
- WINTER	63.00	402.00		402.00	235.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]				C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.09 .01	.27	22.32 .41	.27	.33		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	29.48	83.98	28.09	31.24	22.50		
LIME (TONS), COOLING WATER - BOILER MAKEUP		86.39					
ALUM (TONS), COOLING WATER - BOILER MAKEUP		13.06					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.37	62.67 8.93	8.36	18.79	6.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	OT	ST	OT	ST		
RECEIVING WATER BODY		O COOLING POND		L CALAVERAS			
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.00	10.00	10.00				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	20.00	100.00	100.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	100.00	287.18	30.00				
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)	3 894.01			1 446.40			
COOLING TOWER(S)	3 163.64		4 493.96				
COMBINATION [21]					5 257.00		
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1945 1958	1963	1954 1963	1968	1957 1970		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	13.00 18.00	16.00	17.50 18.00	17.80	13.00 28.50		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	248.90	1,394.00	656.10	504.00	457.30		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					701.90		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					849.50		
COOLING PONDS ($1,000)		4,717.00		14,267.00			
COOLING TOWERS ($1,000)	925.00		1,891.00		900.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.78	62.13	118.30	14.83	75.90		
COST OF CHEMICAL ADDITIVES ($1,000)	21.00	4.90	36.60	2.00	.70		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.91	.91	.91	.56	11.70		
COST OF CHEMICAL ADDITIVES ($1,000)	4.20	34.70	9.10	4.90	7.20		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CLEVELAND DEPT OF PUBLIC UTIL.	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO
NAME OF PLANT	LAKE ROAD	ASHTABULA	AVON LAKE	EAST LAKE	LAKE SHORE
UTILITY-PLANT CODE	103500-0200	104000-0100	104000-0200	104000-0360	104000-0400
STATE	OHIO	OHIO	OHIO	OHIO	OHIO
COUNTY	CUYAHOGA	ASHTABULA	LORAIN	LAKE	CUYAHOGA
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	174 04	178 04	174 04	174 04	174 04
PLANT CAPACITY (MW)	175.00	456.00	1,275.00	1,257.00	514.00
ANNUAL GENERATION (MWH)[3]	210,500	1,810,600	5,956,900	5,490,700	2,597,000
PLANT HEAT RATE (BTU/KWH)[3]	17,151	10,370	9,869	9,853	11,338

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	190.24	808.50	2,475.30	2,339.20	1,224.70
AVERAGE HEAT CONTENT (BTU/LB)	12,173	11,069	11,727	11,796	11,992
AVERAGE SULFUR CONTENT (%)	2.58	3.39	2.89	3.35	2.91
AVERAGE ASH CONTENT (%)	10.66	16.91	12.45	13.21	13.27
AVERAGE MOISTURE CONTENT (%)	4.83	7.42	7.14	6.32	5.54
OIL: CONSUMPTION (1,000 BARRELS)		143.24	118.70	17.39	13.18
AVERAGE HEAT CONTENT (BTU/GAL)		149,736	147,198	137,406	137,258
AVERAGE SULFUR CONTENT (%)		.80	.61	.10	.10
GAS: CONSUMPTION (1,000 MCF)					
AVERAGE HEAT CONTENT (BTU/CU.FT.)					

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	7	12	5	5
- NO. OF WET BOTTOM					4
- NO. WITH FLY ASH REINJECTION			1	1	
- NO. WITH MECHANICAL PRECIPITATORS	1				
- NO. WITH ELECTROSTATIC PRECIPITATORS	3	7	12	1	5
- NO. WITH COMBINATION PRECIPITATORS[4]	2			4	
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	10.00 24.00	10.00 22.00	10.00 22.00	20.00 23.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	95.00				
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	96.50 99.00	90.00 95.60	94.00 99.50	98.20 99.50	90.00 99.40
TESTED, LOW - HIGH		93.20	88.60 97.10	95.00 99.50	59.80 98.00
EST., LOW - HIGH	96.50 98.00	95.00	95.00 99.50	96.00 99.50	82.00 99.00
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.42	6.16	9.12	7.57	6.94
SULFUR DIOXIDE (1,000 TONS)	9.32	33.75	140.42	152.59	73.62
NITROGEN OXIDES (1,000 TONS)	1.71	7.41	22.53	21.09	15.52
STACKS: - TOTAL NO.	6	2	5	5	5
- HEIGHT (FEET), LOWEST - HIGHEST[8]	152.00 162.00	274.00 373.00	277.00 600.00	300.00 600.00	268.00 320.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
TOTAL ASH: COLLECTED (1,000 TONS)[10]	25.80	141.40	368.40	421.10	215.00
SOLD (1,000 TONS)[11]					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
ELECTROSTATIC PRECIPITATORS ($1,000)	1,262.00	656.00	3,072.00	1,311.40	1,299.00
COMBINATION PRECIPITATORS ($1,000)[4]				2,354.00	
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)		261.00	1,648.00	2,709.80	481.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	71.60	402.00	906.00	949.00	967.00
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	71.60	402.00	906.00	949.00	967.00
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ERIE	L ERIE	L ERIE	L ERIE	L ERIE	L ERIE
AVERAGE RATE OF WITHDRAWAL (CFS)	229.30	454.00	969.00	1,235.00	1,235.00	839.00
AVERAGE RATE OF DISCHARGE (CFS)	229.00	454.00	969.00	1,235.00	1,235.00	839.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.97	3.90	6.21	10.02	7.22	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69.00 32.00	73.00 39.00	74.00 38.00	72.00 38.00	75.00 39.00	75.00 39.00
AT OUTFALL, SUMMER - WINTER	83.00 46.00	81.00 55.00	92.00 59.00	92.00 59.00	93.00 56.00	93.00 56.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	229.00					
- WINTER	229.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]	C					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.25	3.75	6.65	.45	3.95
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.20	49.27	180.73	236.56	109.59
LIME (TONS), COOLING WATER - BOILER MAKEUP		15.00	31.25	7.00	27.75
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			55.00	33.00	143.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]		ST	PS	ST	RS	
RECEIVING WATER BODY		L ERIE		L ERIE		
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		7.80	7.00	7.70	7.50
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		125.00	100.00	163.00	433.00
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
- ASH SETTLING		122,000.00	1,300.00	47,700.00	223,000.00

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 160.00	5 456.00	9 1,275.00	5 1,257.00	5 514.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS(S)					
COOLING TOWER(S)					
COMBINATION[21]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1967	1942 1956	1926 1966	1953 1972	1940 1960
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	22.00	12.00	8.00 17.00	11.00 17.00	9.00 17.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	294.40	1,188.00	1,893.10	1,630.00	876.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	294.40	1,188.00	994.00	1,630.00	876.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)		2,224.00	3,929.00	5,221.80	1,831.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		60.00	206.00	175.00	250.00
COST OF CHEMICAL ADDITIVES ($1,000)		2.00	2.00	1.00	6.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.70	325.00	491.00	521.00	325.00
COST OF CHEMICAL ADDITIVES ($1,000)	15.70	11.00	47.00	48.00	64.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	COLO SPRINGS P&L DEPT.	COLO SPRINGS P&L DEPT.	COLORADO - UTE E ASSN. INC.	COLORADO - UTE E ASSN. INC.	COLUMBUS & S OHIO ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	ORAKE	BIROSALL	HAYDEN	NUCLA	CONESVILLE	4
5	UTILITY-PLANT CODE	108000-0100	108000-0200	108500-0100	108500-0300	109500-0200	5
6	STATE	COLORADO	COLORADO	COLORADO	COLORADO	OHIO	6
7	COUNTY	EL PASO	EL PASO	ROUTT	MONTROSE	COSHOCTON	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	038 11	038 11	040 14	035 14	183 05	8
9	PLANT CAPACITY (MW)	150.00	62.50	163.20	34.50	433.50	9
10	ANNUAL GENERATION (MWH) 3/	817,100	225,300	1,264,500	135,500	2,502,700	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11,280	13,267	9,750	14,051	10,425	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	119.30		575.40	79.00	1,271.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,036		10,713	11,993	10,636	13
14	AVERAGE SULFUR CONTENT (%)	1.11		.45	.78	5.19	14
15	AVERAGE ASH CONTENT (%)	15.17		10.46	12.08	17.32	15
16	AVERAGE MOISTURE CONTENT (%)	11.13		10.83	6.09	7.42	16
17	OIL: CONSUMPTION (1,000 BARRELS)		8.50	.97			17
18	AVERAGE HEAT CONTENT (BTU/GAL)		149,762	130,000			18
19	AVERAGE SULFUR CONTENT (%)		.64	.10			19
20	GAS: CONSUMPTION (1,000 MCF)	6,869.80	2,953.30				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	995	994				21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	5	3	1	3	3	22
23	- NO. OF WET BOTTOM	2				2	23
24	- NO. WITH FLY ASH REINJECTION				3		24
25	- NO. WITH MECHANICAL PRECIPITATORS	1			3	1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			1			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	1					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00 15.00	15.00	20.00	26.00	11.00 22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00			86.00	83.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH				82.00	60.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.50		98.50			33
34	TESTED, LOW - HIGH	50.60 93.30		98.20			34
35	EST., LOW - HIGH	92.00 94.00		96.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.73		2.05	2.36	42.96	39
40	SULFUR DIOXIDE (1,000 TONS)	1.64		4.51	1.24	129.54	40
41	NITROGEN OXIDES (1,000 TONS)	3.13	.59	5.18	.59	25.61	41
42	STACKS: - TOTAL NO.	5	3	1	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	56.00 200.00	142.10	250.00	100.00	450.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	14.60		58.50	9.00	174.00	45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	27.20			240.00	287.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			579.00			51
52	COMBINATION PRECIPITATORS ($1,000) 4/	266.30					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	220.10		215.00	316.00	788.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			41.90	16.80	193.00	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	17.90		46.90	16.80	193.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	M	Q YAMPA	Q SAN MIGUEL	Q MUSKINGUM	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	2.22	.88	2.10	44.70	393.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	.41	.22	.50	44.40	393.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.81	.66	1.60	.30	3.38	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/			JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			88.00 34.00	82.00 46.00	80.00 44.00	66
67	AT OUTFALL, SUMMER - WINTER			51.00 50.00	100.00 82.00	104.00 73.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			458.00	85.60	3,951.00	68
69	- WINTER			433.00	103.00	9,517.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.07	2.15 .03	12.10		.13	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.25 .01	.02 .05	4.06 17.40	1.38	334.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			4.20 1.80			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			64.30 27.56			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.52	1.75	10.00		48.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	ST	ST	ST	77
78	RECEIVING WATER BODY			Q YAMPA	Q SAN MIGUEL		78
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING	11.70		8.80	8.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			250.00	250.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING					166,000.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)					3 433.50	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)	4 16.00					85
86	COOLING TOWER(S)	3 135.00	3 62.50	1 163.20			86
87	COMBINATION 21/				3 34.50		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1946 1968	1953 1956	1965	1959	1957 1962	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.00 18.00	14.00	19.70	17.30	16.00 21.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	280.40	122.30	186.70	90.00	465.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				90.00	465.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)				382.00	2,461.00	92
93	COOLING PONDS ($1,000)	19.00			296.00		93
94	COOLING TOWERS ($1,000)	1,333.00		632.00			94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	.53	4.00	63.70	23.70	54.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.63	2.40	47.50		5.50	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			59.60	5.10	67.30	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.52	.40	11.10	2.70	62.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	CITY OF COLUMBUS	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
2						
3 NAME OF PLANT	PICWAY	POSTON	COLUMBUS	STATE LINE	FISK	
4 UTILITY-PLANT CODE	109500-0500	109500-0600	110000-0100	111000-0100	111500-0100	
5 STATE	OHIO	OHIO	OHIO	INDIANA	ILLINOIS	
6 COUNTY	PICKAWAY	ATHENS	FRANKLIN	LAKE	COOK	
7 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	176 05	179 05	176 05	067 04	067 04	
8 PLANT CAPACITY (MW)	230.75	232.00	43.50	972.00	547.00	
9 ANNUAL GENERATION (MWH)[3]	464,300	1,061,300	85,700	4,674,500	1,859,700	
10 PLANT HEAT RATE (BTU/KWH)[3]	12,955	13,480	27,139	10,476	11,193	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

11 COAL: CONSUMPTION (1,000 TONS)	271.00	623.00	28.69	2,203.00	723.00	
12 AVERAGE HEAT CONTENT (BTU/LB)	11,098	10,919	12,050	9,675	9,028	
13 AVERAGE SULFUR CONTENT (%)	4.55	3.09	.83	1.60	.58	
14 AVERAGE ASH CONTENT (%)	13.86	13.38	10.30	10.41	6.31	
15 AVERAGE MOISTURE CONTENT (%)	8.00	9.37	7.50	17.48	25.00	
16 OIL: CONSUMPTION (1,000 BARRELS)			8.11			
17 AVERAGE HEAT CONTENT (BTU/GAL)			138,870			
18 AVERAGE SULFUR CONTENT (%)			.18			
19 GAS: CONSUMPTION (1,000 MCF)			890.10	5,277.60	7,534.00	
20 AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,020	1,037	1,030	

PLANT EQUIPMENT DATA

21 BOILERS: - TOTAL NO.	4	4	4	11	5	
22 - NO. OF WET BOTTOM	3			7	4	
23 - NO. WITH FLY ASH REINJECTION			1		2	
24 - NO. WITH MECHANICAL PRECIPITATORS	1	4	1			
25 - NO. WITH ELECTROSTATIC PRECIPITATORS				11	5	
26 - NO. WITH COMBINATION PRECIPITATORS[4]						
27 - NO. WITH DESULFURIZATION SYSTEMS						
28 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
29 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00	20.00 26.00	10.00 31.00	10.00 25.00	10.00 22.00	
30 TESTED, LOW - HIGH	85.00	85.00	92.30			
31 ESTIMATED, LOW - HIGH			92.30			
32 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	50.00	50.00				
33 TESTED, LOW - HIGH				96.00 98.00	98.00 96.50	
34 EST., LOW - HIGH				96.40 98.70		
35 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				92.00 98.00	96.60	
36 TESTED, LOW - HIGH						
37 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

38 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	19.57	35.48		3.90	.49	
39 SULFUR DIOXIDE (1,000 TONS)	24.43	31.75		69.52	8.22	
40 NITROGEN OXIDES (1,000 TONS)	3.12	5.61	.39	41.01	13.64	
41 STACKS: - TOTAL NO.	4	2	4	6	5	
42 - HEIGHT (FEET), LOWEST - HIGHEST[8]	127.50 288.50	200.00	51.00 110.00	301.00 450.00	292.00 450.00	
43 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
44 TOTAL ASH: COLLECTED (1,000 TONS)[10]	16.20	50.10	9.45	235.10	50.20	
45 SOLD (1,000 TONS)[11]						
46 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
47 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
48 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
49 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	180.00	639.00				
50 ELECTROSTATIC PRECIPITATORS ($1,000)				7,883.95	3,714.00	
51 COMBINATION PRECIPITATORS ($1,000)[4]						
52 DESULFURIZATION SYSTEMS ($1,000)						
53 STACKS ($1,000)	165.00	120.00		731.00	487.00	
54 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	89.00	92.00	7.50	863.00	643.00	
55 REVENUES FROM SALE OF ASH ($1,000)						
56 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)				7.00		
57 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
58 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	89.00	92.00	7.50	870.00	643.00	
59 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

60 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O SCIOTO	W	R SCIOTO	L MICHIGAN	O CHICAGO CANAL	
61 AVERAGE RATE OF WITHDRAWAL (CFS)	178.00	5.71	24.00	1,198.00	380.00	
62 AVERAGE RATE OF DISCHARGE (CFS)	178.80	2.06	24.00	1,196.00	380.00	
63 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.54	3.65	.21	10.30	3.27	
64 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC	AUG OEC	AUG OEC	
65 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 47.00		86.00 56.00	69.00 42.00	69.00 42.00	
66 AT OUTFALL, SUMMER - WINTER	96.00 62.00		94.00 64.00	77.00 51.00	80.00 49.00	
67 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,974.00		24.00		1,709.00	
68 - WINTER	5,518.00		24.00		690.00	
69 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			H	C	C	
70 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.14	23.52 .40	1.00	1.47	.56	
71 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	24.09	.17	1.50	50.84	58.07	
72 LIME (TONS), COOLING WATER - BOILER MAKEUP	34.47	1,212.48				
73 ALUM (TONS), COOLING WATER - BOILER MAKEUP		170.18		10.07	3.25	
74 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		29.48	1.00 3.00	60.06	87.03	
75 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
76 SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[16]	ST		PS	PS	RS	
77 RECEIVING WATER BODY	R SCIOTO	R HOCKING				
78 POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING	9.00	8.60		9.80 7.30	10.50 7.80	
79 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	5.00		3.00 80.00	3.00 8.00	
80 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				203.00	314.00	
81 - ASH SETTLING	66,000.00	30,500.00		67,894.00	36,267.00	

COOLING FACILITY DATA

82 NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)	5 200.75		5 45.00	4 972.00	3 572.00	
83 ONCE THROUGH COOLING (SALINE)						
84 COOLING POND(S)						
85 COOLING TOWER(S)		4 232.00				
86 COMBINATION[21]						
87 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM						
88 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1926 1955	1949 1954	1918 1955	1929 1962	1914 1959	
89 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	10.00 18.00	14.00 16.00	8.30	8.50 12.20	10.60 13.90	
90 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	386.00	436.00	24.00	1,850.00	931.00	
91	386.00		24.00	1,850.00	931.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)						
93 COOLING PONDS ($1,000)	1,399.00			2,252.00	3,538.00	
94 COOLING TOWERS ($1,000)		4,159.00				

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.60	127.90		76.00	66.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)		58.90	.66	11.00	19.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.80	33.70		231.00	140.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	7.30	4.60	8.56	14.00	14.00	

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
4	NAME OF PLANT	CALUMET	CRAWFORD	DIXON	DRESDEN	JOLIET	
5	UTILITY-PLANT CODE	111500-0200	111500-0300	111500-0400	111500-0500	111500-1000	
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
7	COUNTY	COOK	COOK	LEE	GRUNDY	WILL	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	067 04	067 04	071 07	067 07	067 07	
9	PLANT CAPACITY (MW)	107.00	702.00	119.00	1,865.00	1,787.00	
10	ANNUAL GENERATION (MWH)[3]	435,030	3,504,800	602,085	9,215,800	8,068,400	
11	PLANT HEAT RATE (BTU/KWH)[3]	12,753	10,357	11,717	10,723	10,537	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		935.00	292.00		3,834.00	
13	AVERAGE HEAT CONTENT (BTU/LB)		6,650	11,557		10,414	
14	AVERAGE SULFUR CONTENT (%)		.60	1.28		3.03	
15	AVERAGE ASH CONTENT (%)		7.70	9.16		13.32	
16	AVERAGE MOISTURE CONTENT (%)		26.52	10.97		12.59	
17	OIL: CONSUMPTION (1,000 BARRELS)						
18	AVERAGE HEAT CONTENT (BTU/GAL)						
19	AVERAGE SULFUR CONTENT (%)						
20	GAS: CONSUMPTION (1,000 MCF)	5,386.50	19,538.30	297.10		4,292.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,030	1,029		1,029	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	8	2		9	
23	- NO. OF WET BOTTOM	2		2		5	
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2	2		7	
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	10.00 15.00	20.00 25.00		16.00 25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	98.00 99.00	92.00 95.00		98.00 99.00	
34	TESTED, LOW - HIGH		89.30 97.50	93.40 95.80		95.60	
35	EST., LOW - HIGH		98.00	93.00 96.00		98.00 99.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		1.22	.94		3.37	
40	SULFUR DIOXIDE (1,000 TONS)		11.00	7.33		227.69	
41	NITROGEN OXIDES (1,000 TONS)	1.05	12.22	4.44		55.99	
42	STACKS: - TOTAL NO.	2	5	2		6	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	185.00 378.00	221.00 240.00		248.00 550.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		62.30	32.60		493.50	
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	502.00	2,100.00	428.00		7,854.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	82.00	716.00	98.00		1,387.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		572.00	98.00		1,107.00	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		572.00	98.00		1,107.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CALUMET	D CHICAGO CANAL	R ROCK	° ILLINOIS	° DES PLAINES	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	97.00	743.00	137.00	2,536.00	1,899.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	97.00	743.00	137.00	2,508.00	1,849.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.83	6.39	1.18	27.00	18.33	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC		AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	74.00 49.00	73.00 47.00	76.00 37.00	76.00 39.00	79.00 49.00	
67	AT OUTFALL, SUMMER - WINTER	86.00 60.00	80.00	88.00 56.00	89.00 52.00	88.00 54.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	277.00	1,789.00	6,960.00	17,075.00	12,796.00	
69	- WINTER	947.00	690.00	5,365.00	16,344.00	4,094.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	H	H	C	C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.08	.55	.51	7.50	1.87	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	7.15	50.09	.33	133.67	214.97	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			16.18			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	.29	4.89	4.28			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	9.49	161.75	20.11	477.40	558.42	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	PS	OT	OT	
78	RECEIVING WATER BODY				° ILLINOIS	° DES PLAINES	
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.80 7.80	9.40 7.70	10.80 8.10		10.30 7.80	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 20.00	3.00 50.00	3.00 2.40		3.00 20.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	58.00	504.00	260.00		1,796.00	
82	- ASH SETTLING	13,800.00	10,400.00	9,500.00		30,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 175.00	3 701.00	2 119.00	1 209.00	8 1,862.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATION[21]				1,020.00		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1947	1928 1961	1945 1953	1960 1971	1917 1966	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	8.30 11.10	8.20 13.50	11.80 14.70	18.70 24.80	8.00 10.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	534.00	1,255.00	237.00	2,608.00	3,301.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	534.00	1,255.00	237.00	2,654.00	3,145.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	722.00	2,650.00	571.00	11,623.00	5,805.00	
93	COOLING PONDS ($1,000)				25,000.00		
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.00	136.00	30.00	2,856.00	231.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)		36.00	4.00	118.00	117.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	60.00	159.00	60.00	837.00	224.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)		17.00	3.00	58.00	66.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10 INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
NAME OF PLANT	KINCAID	ROMEPTON	QUAD CITIES	PIOGELAND	SABROOKE	
UTILITY-PLANT CODE	111500-1100	111500-1300	111500-1350	111500-1400	111500-1500	
STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
COUNTY	CHRISTIAN	TAZEWELL	ROCK ISLAND	COOK	WINNEBAGO	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	075 07	065 07	069 07	067 07	073 07	
PLANT CAPACITY (MW)	1,319.00	1,213.00	1,657.00	690.00	146.00	
ANNUAL GENERATION (MWH)[3]	5,469,000	1,796,000	2,914,500	3,171,700	664,900	
PLANT HEAT RATE (BTU/KWH)[3]	10,562	13,176	10,911	11,016	11,766	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,975.00	1,101.00			311.00	
AVERAGE HEAT CONTENT (BTU/LB)	9,688	10,629			11,212	
AVERAGE SULFUR CONTENT (%)	3.96	3.50			1.06	
AVERAGE ASH CONTENT (%)	15.83	6.52			11.82	
AVERAGE MOISTURE CONTENT (%)	15.16	16.15			10.18	
OIL: CONSUMPTION (1,000 BARRELS)		15.40		5,580.90		
AVERAGE HEAT CONTENT (BTU/GAL)		136,208		148,970		
AVERAGE SULFUR CONTENT (%)		.50		.78		
GAS: CONSUMPTION (1,000 MCF)	123.30	204.40		20.30	841.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	987	1,000		1,029	1,029	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	14		6	4	
- NO. OF WET BOTTOM	2	11		6		
- NO. WITH FLY ASH REINJECTION	2					
- NO. WITH MECHANICAL PRECIPITATORS					3	
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2		6	1	
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	16.00	15.00 28.00		10.00 16.00	22.00 27.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					92.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH					80.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH	98.00	99.50		90.00 98.00	98.00	
TESTED, LOW - HIGH	98.80				93.90	
EST., LOW - HIGH	98.00	99.50		90.00 96.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.04	12.44		.05	2.65	
SULFUR DIOXIDE (1,000 TONS)	230.91	75.55			6.46	
NITROGEN OXIDES (1,000 TONS)	81.84	27.50		12.31	2.69	
STACKS: - TOTAL NO.	2	4		6	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	500.00	311.00 500.00		213.00	148.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	409.20	83.80		.60	37.00	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					98.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	4,342.00	3,700.00		1,591.00	179.00	
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	950.00	4,692.00		860.00	106.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1,283.00	227.00		47.00	140.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1,283.00	227.00		47.00	140.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O LOCAL RUNOFF	O ILLINOIS	O MISSISSIPPI	O CHICAGO CANAL	O ROCK	
AVERAGE RATE OF WITHDRAWAL (CFS)	60.50	156.00	752.00	773.00	144.00	
AVERAGE RATE OF DISCHARGE (CFS)	40.30	108.00	752.00	773.00	144.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	20.20	48.00	6.47	6.65	1.24	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 46.00	82.00 36.00	75.00 34.00	78.00 55.00	74.00 34.00	
AT OUTFALL, SUMMER - WINTER	94.00 51.00		86.00 65.00	59.00	87.00 56.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		10,500.00	81,910.00	3,305.00	5,021.00	
- WINTER		8,150.00	34,119.00	1,954.00	4,144.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	H		C	C	H	
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	.38		7.50	.97	.52	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	281.95	50.59	113.61	64.45	64.68	
LIME (TONS), COOLING WATER - BOILER MAKEUP	205.52					
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	40.63	16.00	2,180.00	426.38	1.20	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	OT	PS	PS	
RECEIVING WATER BODY	L KINCAID	O ILLINOIS	O MISSISSIPPI			
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.90	10.80 8.80		10.40 7.40	11.00 4.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.50	3.00 24.00		3.00 45.00	3.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		29.00		321.00	34.00	
- ASH SETTLING	817,000.00	100,000.00		525,500.00	15,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		4 320.00	2 1,618.00	4 692.00	4 147.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)	2 1,320.00	1 840.00				
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967 1968	1928 1971	1972	1950 1955	1949 1961	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	32.50	7.00 25.20	24.00	8.30 11.70	20.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,070.00	1,859.00	2,100.00	1,336.00	213.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,070.00	1,090.00	2,270.00	1,336.00	280.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,675.00	2,313.00	8,998.00	4,401.00	1,106.00	
COOLING PONDS ($1,000)	3,819.00	10,771.00				
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	37.00	58.00	15.00	139.00	15.00	
COST OF CHEMICAL ADDITIVES ($1,000)	9.00	7.00	4.00	51.00	1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	151.00	127.00	191.00	174.00	132.00	
COST OF CHEMICAL ADDITIVES ($1,000)	72.00	22.00	129.00	14.00	10.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	CONN YANKEE ATOMIC PWR CO.	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	
NAME OF PLANT	WAUKEGAN	WILL COUNTY	HADDAM	59TH STREET	74TH STREET	
UTILITY-PLANT CODE	111500-1600	111500-1700	112500-0100	113000-0100	113000-0200	
STATE	ILLINOIS	ILLINOIS	CONNECTICUT	NEW YORK	NEW YORK	
COUNTY	LAKE	WILL	MIDDLESEX	NEW YORK	NEW YORK	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	067 04	067 07	042 01	043 02	043 02	
PLANT CAPACITY (MW)	933.00	1,229.00	575.00	184.50	269.00	
ANNUAL GENERATION (MWH)[3]	4,437,700	4,605,500	4,300,300	553,600	398,900	
PLANT HEAT RATE (BTU/KWH)[3]	10,261	10,273	10,937	15,726	14,954	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,127.00	2,528.00				
AVERAGE HEAT CONTENT (BTU/LB)	10,433	9,188				
AVERAGE SULFUR CONTENT (%)	1.75	1.33				
AVERAGE ASH CONTENT (%)	9.73	8.12				
AVERAGE MOISTURE CONTENT (%)	15.11	23.06				
OIL: CONSUMPTION (1,000 BARRELS)	30.10	150.80		1,433.70	981.70	
AVERAGE HEAT CONTENT (BTU/GAL)	137,949	138,167		144,415	144,580	
AVERAGE SULFUR CONTENT (%)	.50	.50		.36	.34	
GAS: CONSUMPTION (1,000 MCF)	937.90			9.40		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,029			1,029		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	9	4		6	3	
- NO. OF WET BOTTOM	6	2				
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	9	4				
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS		1				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00 25.00	10.00 20.00		7.00 14.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00 98.00	90.00 96.00				
TESTED, LOW - HIGH	74.00 98.60	96.30				
EST., LOW - HIGH	96.00 98.00	91.00 96.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		76.00				
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.40	3.05		.24	.16	
SULFUR DIOXIDE (1,000 TONS)	73.01	66.15		1.92	.59	
NITROGEN OXIDES (1,000 TONS)	26.43	39.54		3.10	2.10	
STACKS: - TOTAL NO.	4	4		2	1	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	330.00 450.00	349.00 500.00		245.85 260.35	516.40	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.01	.02	
TOTAL ASH: COLLECTED (1,000 TONS)[10]	191.80	201.20				
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	6,369.00	5,211.00				
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)		15,000.00				
STACKS ($1,000)	893.00	1,060.00		1,247.00	1,100.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1,011.00	1,040.00				
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)		132.00				
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1,011.00	1,172.00				
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	I CHICAGO CANAL	- CONNECTICUT	- HUDSON	- EAST	
AVERAGE RATE OF WITHDRAWAL (CFS)	966.00	472.00	270.00	135.00	237.00	
AVERAGE RATE OF DISCHARGE (CFS)	966.00	472.00	270.00	135.00	237.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	8.31	8.36	7.48	1.32	2.04	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	72.00 42.00	80.00 55.00	79.00 47.00	80.00 52.00	71.00 47.00	
AT OUTFALL, SUMMER - WINTER	81.00 53.00		99.75 60.50	92.00 62.00	76.00 51.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		5,833.00	4,500.00			
- WINTER		3,315.00	10,100.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]		C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	2.67	.62	1.60	2.53	.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73.75	94.12		32.00	84.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	8.58					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	57.23	569.16		20.40	28.80	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	UT	ST			
RECEIVING WATER BODY		O DES PLAINES				
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.20 7.70	9.70 7.70				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 25.00	3.00 40.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	1,833.00	800.00				
- ASH SETTLING	244,000.00	18,984.00				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 1,042.00	4 1,269.00	1 600.00		5 269.00	
ONCE THROUGH COOLING (SALINE)				184.00		
COOLING PONDS(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1962	1955 1963	1965	1918 1960	1915 1962	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.50 15.20	8.90 16.10	22.00	7.00	7.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,548.00	2,000.00	930.00	584.00	760.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,548.00	2,000.00	870.00	285.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	4,859.00	5,126.00	1.5	660.23	972.32
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	366.00	214.00	10.40	119.13	45.60
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	87.00	9.00	4.93	3.70

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	137.00	190.00	6.50	100.13	70.80
COST OF CHEMICAL ADDITIVES ($1,000)	24.00	36.00	16.40	13.43	26.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	1
2							2
3							3
4	NAME OF PLANT	ARTHUR KILL	ASTORIA	EAST RIVER	HELL GATE	HUDSON AVENUE	4
5	UTILITY-PLANT CODE	113000-0300	113000-0400	113000-0500	113000-0600	113000-0700	5
6	STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	6
7	COUNTY	RICHMOND	QUEENS	NEW YORK	NEW YORK	KINGS	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 02	043 02	043 02	043 02	043 02	8
9	PLANT CAPACITY (MW)	911.70	1,550.60	833.65	511.25	765.00	9
10	ANNUAL GENERATION (MWH)[3]	3,556,300	5,683,400	2,366,300	1,388,300	1,041,300	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,360	10,398	12,469	17,391	19,758	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	139.70	5.60				12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,093	10,673				13
14	AVERAGE SULFUR CONTENT (%)	.89	.93				14
15	AVERAGE ASH CONTENT (%)	13.11	12.50				15
16	AVERAGE MOISTURE CONTENT (%)	6.10	17.20				16
17	OIL: CONSUMPTION (1,000 BARRELS)	5,644.70	8,956.50	2,063.40	3,445.20	3,397.60	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	143,924	144,713	144,334	144,540	144,163	18
19	AVERAGE SULFUR CONTENT (%)	.39	.35	.51	.41	.48	19
20	GAS: CONSUMPTION (1,000 MCF)		4,176.10	18,462.40	3,155.80	1,154.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,029	1,029	1,029	1,029	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	5	12	19	24	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1					26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	1	5	1			27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	25.00	15.00 20.00	20.00 27.00	25.00 30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.50	97.00 99.00	97.00			33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.08	.03	.19	.38	.57	39
40	SULFUR OXIDES (1,000 TONS)	9.99	14.18	2.21	4.62	5.70	40
41	NITROGEN OXIDES (1,000 TONS)	13.62	20.70	6.51	6.41	7.72	41
42	STACKS: - TOTAL NO.	1	8	4	5	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	918.25	315.00	376.00	274.25 294.25	387.10 387.20	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.20			.03	44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,996.00					51
52	COMBINATION PRECIPITATORS ($1,000)[4]	2,277.00	8,214.00	1,170.00			52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	808.50	1,315.20	648.90	172.00	255.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	13.40	14.50				55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	99.50	88.60				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B LOWER NY	B EAST	C EAST	F EAST	F EAST	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	763.00	1,315.00	869.00	587.00	751.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	763.00	1,315.00	869.00	587.00	751.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.73	11.31	7.47	5.05	6.46	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 52.00	77.00 54.00	73.00 48.00	72.00 46.00	73.00 48.00	66
67	AT OUTFALL, SUMMER - WINTER	100.00 72.00	90.00 67.00	86.00 58.00	82.00 56.00	86.00 58.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O,[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	2.50	48.00	7.50	48.00	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKUP	92.50	26.50	91.00	5.00	91.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	51.75	157.50	62.00	82.50	110.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]						77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)	2 250.00	5 1,560.00	0 777.00	0 615.00	8 765.00	84
85	COOLING PONDS						85
86	COOLING TOWERS						86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1969	1953 1962	1927 1962	1921 1946	1924 1951	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00	13.00	15.00	12.00	12.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,010.00	2,718.00	1,590.00	1,575.00	2,069.96	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,010.00	2,108.00	1,390.00	993.00	2,330.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,676.03	4,618.59	8,243.59	803.73	1,534.22	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	98.90	22.30	99.10	31.20	96.70	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	12.10	36.80	14.40	19.30	20.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	96.50	23.50	217.70	85.70	181.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	11.90	14.00	69.60	5.80	27.80	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSUMERS POWER CO.	CONSUMERS POWER CO.		1
2								2
3								3
4	NAME OF PLANT	INDIAN POINT	RAVENSWOOD	WATERSIDE	COBB	MORROW		4
5	UTILITY-PLANT CODE	113000-0800	113000-1000	113000-1200	114500-0400	114500-0500		5
6	STATE	NEW YORK	NEW YORK	NEW YORK	MICHIGAN	MICHIGAN		6
7	COUNTY	WESTCHESTER	QUEENS	NEW YORK	MUSKEGON	KALAMAZOO		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 02	043 02	043 02	122 04	125 04		8
9	PLANT CAPACITY (MW)	275.00	1,027.70	712.25	510.50	180.00		9
10	ANNUAL GENERATION (MWH)[3]	1,127,500	8,445,900	1,444,300	2,874,300	761,300		10
11	PLANT HEAT RATE (BTU/KWH)[3]		9,885	16,888	10,756	13,349		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)				1,336.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)				11,522			13
14	AVERAGE SULFUR CONTENT (%)				3.17			14
15	AVERAGE ASH CONTENT (%)				10.63			15
16	AVERAGE MOISTURE CONTENT (%)				10.99			16
17	OIL: CONSUMPTION (1,000 BARRELS)	651.30	12,903.70	2,493.90	22.00	689.84		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,782	144,358	144,359	(40,000	150,000		18
19	AVERAGE SULFUR CONTENT (%)	.46	.36	.53	.48	1.00		19
20	GAS: CONSUMPTION (1,000 MCF)		5,103.70	9,007.90		4,461.40		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,029	1,029		1,021		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	2	4	10	5	4		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS					4		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				5			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]		2					27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	10.00 25.00	20.00	15.00 18.00	20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					80.00 81.00		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH					80.00 81.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.00		99.00			33
34	TESTED, LOW - HIGH				96.78 98.74			34
35	EST., LOW - HIGH				97.00 99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.11	1.09	.42	2.25	.03		39
40	SULFUR DIOXIDE (1,000 TONS)	1.09	17.32	4.16	85.89	2.99		40
41	NITROGEN OXIDES (1,000 TONS)	1.44	29.45	7.26	12.06	2.83		41
42	STACKS: - TOTAL NO.	1	3	3	5	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	334.00	515.00	479.00	250.00 300.00	262.50		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.05	.05				44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		.20		142.00			45
46	SOLD (1,000 TONS)[11]		.20		19.60			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					100.60		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				3,640.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]		10,300.00					52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	665.10	1,516.70	598.40	276.60	100.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		63.00		285.60			55
56	REVENUES FROM SALE OF ASH ($1,000)		4.70		17.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		269.60		292.70			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		4.70		17.00			60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R HUDSON	R EAST	R EAST	L MUSKEGON	L KALAMAZOO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	611.00	1,681.00	524.00	690.00	538.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	611.00	1,681.00	524.00	690.00	538.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.25	14.46	4.51	5.93	4.63		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JAN DEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 41.00	76.00 51.00	74.00 49.00	75.00 48.00	79.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	89.00 66.00	88.00 63.00	85.00 62.00	92.00 65.00	97.00 66.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							68
69	- WINTER							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	2.50	13.00	.27	2.00		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	32.50	107.00	697.50	53.37	.01		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				17.88	14.97		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				1.09	5.58		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.00	427.50	59.00	124.84 15.77	2.16		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST			ST	ST		77
78	RECEIVING WATER BODY					L KALAMAZOO		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING				10.50 7.70	10.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				10.00 3.00	15.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING				35,135.69			82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				5 510.50	4 180.00		83
84	ONCE THROUGH COOLING (SALINE)	1 275.00	3 1,720.00	1 713.00				84
85	COOLING POND(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1963 1965	1919 1949	1948 1957	1939 1949		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00	15.00	10.00	11.68 16.50	15.00 16.50		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	695.00	2,149.00	870.00	903.00	404.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	695.00	2,149.00		903.00	405.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	4,979.47	9,121.50	1,349.80				92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	75.80	193.40	141.60	39.60	52.40		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.30	100.00	13.60	5.20	3.60		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	133.90	130.90	197.20	.50	10.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.30	25.40	144.90	12.40	13.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	1
4	NAME OF PLANT	BIG ROCK POINT	KARN	ELM STREET	CAMPBELL	PALISADES	4
5	UTILITY-PLANT CODE	114500-0600	114500-1200	114500-1300	114500-1900	114500-2250	5
6	STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	6
7	COUNTY	CHARLEVOIX	BAY		OTTAWA	VAN BUREN	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	120 04	122 04	125 04	122 04	082 04	8
9	PLANT CAPACITY (MW)	75.00	530.00	30.00	650.00	720.00	9
10	ANNUAL GENERATION (MWH) 2/	360,400	3,489,900	88,300	3,971,300	1,764,800	10
11	PLANT HEAT RATE (BTU/KWH) 2/	11,321	9,161	15,630	9,071	11,434	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		1,421.00	53.70	1,619.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,212	12,790	11,104		13
14	AVERAGE SULFUR CONTENT (%)		2.80	1.00	3.67		14
15	AVERAGE ASH CONTENT (%)		13.81	7.00	16.92		15
16	AVERAGE MOISTURE CONTENT (%)		9.25	7.51	7.45		16
17	OIL: CONSUMPTION (1,000 BARRELS)		18.70	1.13	17.10		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		140,000	137,000	140,000		18
19	AVERAGE SULFUR CONTENT (%)		.50	.50	.30		19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.		2	1	2		22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS			1			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2		2		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - MIGHEST BOILER 5/		17.00	4.50	18.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00			30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			80.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		95.00		95.00 98.00		33
34	TESTED, LOW - HIGH		98.97 98.06		89.88 98.13		34
35	EST., LOW - HIGH		70.00 88.00				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		33.96	.64	11.89		39
40	SULFUR DIOXIDE (1,000 TONS)		78.02	1.05	116.48		40
41	NITROGEN OXIDES (1,000 TONS)		12.83	.49	14.61		41
42	STACKS: - TOTAL NO.	1	2	1	1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	240.00	350.00	255.50	405.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/		196.80	3.70	272.90		45
46	SOLD (1,000 TONS) 11/		56.20		17.10		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			19.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,014.00		970.60		51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	60.00	522.00	25.00	312.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		176.70	15.30	181.50		55
56	REVENUES FROM SALE OF ASH ($1,000)		49.40		27.40		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		181.30	15.30	189.80		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		49.40		27.40		60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	R SAGINAW	S BATTLE CREEK	L PIGEON	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	113.88	497.30	65.00	502.00	900.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	113.86	496.80	65.00	502.00	900.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.98	4.20 .33	.50	4.32	7.74	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG JAN	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69.00 49.00	78.00 35.00	79.00 36.00	74.00 44.00	70.00 34.00	66
67	AT OUTFALL, SUMMER - WINTER	83.00 62.00	95.00 64.00	93.00 50.00	88.00 68.00	88.00 59.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OTH 16/					C	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP		2.77	.56	.22	3.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.23	338.16			79.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		64.23				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		6.80				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.01	58.55 13.72	.45	6.30		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 18/	ST	ST	PS	ST	ST	77
78	RECEIVING WATER BODY	L MICHIGAN	8 SAGINAW		L MICHIGAN		78
79	POND DISCHARGE FIRM, BOILER BLOWDOWN - ASH SETTLING		10.00 8.00	11.00 8.00	9.50 7.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00	50.00	3.00 12.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				318,000.00		81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 19/ ONCE THROUGH COOLING (FRESH)	1 75.00	2 530.00	1 30.00	2 650.00	1 720.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION 20/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1959 1961	1925	1962 1966	1969	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 21/	20.00	14.33	13.00	16.67 18.33	28.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	104.30	664.00	77.90	866.00	865.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	104.30	664.00	77.90	868.00	900.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)					5,700.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	10.80	.25	10.00	63.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		9.70	.17	6.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	6.00	.70	5.00	67.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.03	20.20	.90	4.20	51.00	98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	NEBRASKA PUB PWR DIST'ICT	NEBRASKA PUB PWR DISTRICT	
NAME OF PLANT	SAGINAW RIVER	MEADOCK	WHITING	BLUFFS	SHELDON	
UTILITY-PLANT CODE	114500-2500	114500-2600	114500-2900	115000-1000	115000-1100	
STATE	MICHIGAN	MICHIGAN	MICHIGAN	NEBRASKA	NEBRASKA	
COUNTY	SAGINAW	BAY	MONROE	SCOTTSBLUFF	LANCASTER	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	122 04	122 04	124 04	146 10	145 10	
PLANT CAPACITY (MW)	80.00	614.50	325.00	42.20	228.65	
ANNUAL GENERATION (MWH)[3]	7,100	3,358,100	1,921,200	215,900	1,246,800	
PLANT HEAT RATE (BTU/KWH)[3]	23,271	10,902	9,940	13,561	10,580	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	7.50	1,465.00	853.00		251.81	
AVERAGE HEAT CONTENT (BTU/LB)	11,015	11,774	11,203		12,242	
AVERAGE SULFUR CONTENT (%)	1.50	2.65	2.54		3.91	
AVERAGE ASH CONTENT (%)	12.70	12.80	16.81		13.22	
AVERAGE MOISTURE CONTENT (%)	7.30	7.52	7.20		4.71	
OIL: CONSUMPTION (1,000 BARRELS)		353.90	1.49			
AVERAGE HEAT CONTENT (BTU/GAL)		140,000	140,000			
AVERAGE SULFUR CONTENT (%)		.30	.50			
GAS: CONSUMPTION (1,000 MCF)				2,927.79	6,967.07	
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000	1,002	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	10	8	3	4	2	
- NO. OF WET BOTTOM					2	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		6	3		1	
- NO. WITH ELECTROSTATIC PRECIPITATORS		2				
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	30.00	20.00 25.00	20.00	10.00 15.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		80.00 91.00	85.00 86.00		75.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		80.00 81.00	85.00 86.00		75.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.00				
TESTED, LOW - HIGH		94.60 97.70				
EST., LOW - HIGH		95.00 96.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.62	15.93	17.98		2.12	
SULFUR DIOXIDE (1,000 TONS)	.22	76.45	42.30		19.30	
NITROGEN OXIDES (1,000 TONS)	.06	13.97	7.68	.57	0.24	
STACKS: - TOTAL NO.	3	5	3	4	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	256.50 244.00	272.00	297.00	65.00 95.50	176.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	1.00	188.70	143.00		20.34	
SOLD (1,000 TONS)[11]		1.30	.20		12.14	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		454.10	216.50		60.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		2,934.00				
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	72.00	450.00	209.00	25.92	128.20	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.20	228.30	147.40		14.73	
REVENUES FROM SALE OF ASH ($1,000)		2.40	.30			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1.20	230.10	149.40		14.73	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		2.40	.30		1.22	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P SAGINAW	P SAGINAW	L ERIE	R	R	
AVERAGE RATE OF WITHDRAWAL (CFS)	7.00	910.00	351.00	40.50	5.67	
AVERAGE RATE OF DISCHARGE (CFS)	7.00	910.00	351.00	40.50	3.77	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.06	7.83	3.02	.35	1.90	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG	JAN	AUG	DEC	AUG	JAN	AUG	JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00	35.00	78.00	38.00	58.00	58.00	
AT OUTFALL, SUMMER - WINTER	100.00	64.00	94.00	62.00	85.00	70.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	.10	.26	.75		3.55 .09	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.46	2.50	.03	17.75	
LIME (TONS), COOLING WATER - BOILER MAKEUP			13.50		1,428.10 43.75	
ALUM (TONS), COOLING WATER - BOILER MAKEUP			.55		81.05 2.15	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.45	25.48	3.47		10.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]	ST	ST	ST L ERIE	ST	OT	
RECEIVING WATER BODY						
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	10.80	10.30 8.00	10.50 8.00			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	38.00	15.00	15.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	25,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4	103.50	8	614.50	3	325.00	4	42.40			
ONCE THROUGH COOLING (SALINE)											
COOLING POND(S)											
COOLING TOWER(S)									2	228.00	
COMBINATIONS[21]											
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1928	1930	1940	1958	1952	1953	1940	1960	1959	1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]			11.70	16.20	12.10	15.00		20.00	17.80	18.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		407.00		1,196.00		477.00		80.20		267.40	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		407.00		1,212.00		477.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)					2,501.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.30	19.30	1.30		62.12	
COST OF CHEMICAL ADDITIVES ($1,000)	.10	5.20	1.60	19.76	72.16	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.30	11.00	5.00		117.59	
COST OF CHEMICAL ADDITIVES ($1,000)	.40	10.10	6.70		3.35	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DALLAS POWER & LIGHT CO.		
4	NAME OF PLANT	ALMA	GENOA #3	STONEMAN	GENOA (NUCLEAR)	DALLAS		
5	UTILITY-PLANT CODE	126000-0100	126000-0450	126000-0500	126000-0700	126500-0100		
6	STATE	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	TEXAS		
7	COUNTY	BUFFALO	VERNON	GRANT	VERNON	DALLAS		
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	128 07	128 07	068 07	128 07	219 12		
9	PLANT CAPACITY (MW)	187.80	345.60	51.75	419.60	223.75		
10	ANNUAL GENERATION (MWH) 3/	1,158,700	1,672,300	203,500	1,913,200	441,900		
11	PLANT HEAT RATE (BTU/KWH) 3/	10,378	9,771	12,397		13,289		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	377.00	751.00	117.00				
13	AVERAGE HEAT CONTENT (BTU/LB)	10,380	9,712	10,703				
14	AVERAGE SULFUR CONTENT (%)	2.58	3.62	3.69				
15	AVERAGE ASH CONTENT (%)	15.07	21.51	16.74				
16	AVERAGE MOISTURE CONTENT (%)	12.22	10.36	9.54				
17	OIL: CONSUMPTION (1,000 BARRELS)	4.91	12.29	2.21		47.71		
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000		146,071		
19	AVERAGE SULFUR CONTENT (%)	.30	.30	.30		.73		
20	GAS: CONSUMPTION (1,000 MCF)					5,331.55		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,046		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	1	2		9		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS	5		2				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1					
27	- NO. WITH COMBINATION PRECIPITATORS 4/							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 25.00	20.00	20.00		10.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	77.00 90.00		84.00				
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH	77.00 90.00		65.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		99.00					
34	TESTED, LOW - HIGH							
35	EST., LOW - HIGH		66.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	70.00						
37	TESTED, LOW - HIGH	35.00						
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	10.84	18.89	2.45		.01		
40	SULFUR DIOXIDE (1,000 TONS)	20.77	53.74	8.57		.12		
41	NITROGEN OXIDES (1,000 TONS)	5.17	6.79	1.05		1.14		
42	STACKS: - TOTAL NO.	3	1	2		7		
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	189.50 210.00	500.00	138.00		137.00 361.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	75.30	138.10	20.20				
46	SOLD (1,000 TONS) 11/		10.60					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	104.80		45.50				
51	ELECTROSTATIC PRECIPITATORS ($1,000)		811.00					
52	COMBINATION PRECIPITATORS ($1,000) 4/							
53	DESULFURIZATION SYSTEMS ($1,000)	300.00						
54	STACKS ($1,000)	140.00	605.00	24.40		203.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	75.00	223.20	14.20				
56	REVENUES FROM SALE OF ASH ($1,000)		5.70					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	144.70						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	219.70	223.20	14.20				
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		5.70					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	D MISSISSIPPI	D MISSISSIPPI	R MISSISSIPPI	D MISSISSIPPI	R		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	182.00	322.00	62.00	66.80	1.00		
63	AVERAGE RATE OF DISCHARGE (CFS)	182.00	322.00	62.00	66.80			
64	AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED 14/	1.57 2.77	.63			1.00		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	AUG JAN	AUG JAN	AUG JAN			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 37.00	75.00 46.00	76.00 34.00	79.00 42.00			
67	AT OUTFALL, SUMMER - WINTER	101.00 53.00	104.00 78.00	91.00 54.00	88.00 74.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	27,200.00	27,200.00	35,000.00	27,200.00			
69	- WINTER	12,700.00	12,700.00	25,700.00	12,700.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.11		.03		0.75	.70	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	64.50	.05	6.20			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			1.05				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			.31				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.00				14.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	PS	PS		
78	RECEIVING WATER BODY	R MISSISSIPPI			R MISSISSIPPI			
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING			8.40				
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			70.00				
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING							

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	5 187.90	1 345.00	2 51.80	1 50.00			
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING PONDS(S)					3 70.00		
86	COOLING TOWER(S)					2 153.80		
87	COMBINATION 21/							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1959	1969	1951 1952	1964	1923 1954		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	18.00	17.50	16.00 16.93	30.00	15.00 16.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	280.00	362.00	85.90	133.60	257.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,841.50	378.00	94.90	133.60			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,085.30	1,168.00	413.20	748.20			
93	COOLING PONDS ($1,000)					495.00		
94	COOLING TOWERS ($1,000)					1,405.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.40	43.90	2.40	2.70	122.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)		.80			21.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.10	35.50	12.30	7.50	26.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.30	16.60	.80	2.20	1.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	CITY OF DANVILLE, WTR., GAS, & ELEC DEPT.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	MOUNTAIN CREEK	NORTH LAKE	PARKDALE	LAKE HUBBARD	BRANTLY	4
5	UTILITY-PLANT CODE	5	126500-0200	126500-0300	126500-0400	126500-0500	127000-0100	5
6	STATE	6	TEXAS	TEXAS	TEXAS	TEXAS	VIRGINIA	6
7	COUNTY	7	DALLAS	DALLAS	DALLAS	DALLAS	PITTSYLVANIA	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	215 12	215 12	215 12	215 12	222 03	8
9	PLANT CAPACITY (MW)	9	989.74	706.61	340.63	396.52	29.00	9
10	ANNUAL GENERATION (MWH) 3/	10	3,488,100	3,059,400	651,900	1,300,900	173,200	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	10,381	10,305	12,356	11,596	15,603	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12					35.61	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					13,350	13
14	AVERAGE SULFUR CONTENT (%)	14					.90	14
15	AVERAGE ASH CONTENT (%)	15					9.50	15
16	AVERAGE MOISTURE CONTENT (%)	16					3.00	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	132.14	129.73	54.89	57.00	.97	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,071	146,071	146,071	146,071	134,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.94	.78	.71	.25	.25	19
20	GAS: CONSUMPTION (1,000 MCF)	20	34,631.90	29,076.05	7,602.21	15,196.59	1,671.10	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,022	1,057	1,015	1,020	1,045	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	8	3	3	1	3	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25					3	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	8.00 19.00	8.00	7.00 8.00	6.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					84.00 84.70	30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32					84.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33					84.70	33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	.02	.02	.01	.01		39
40	SULFUR DIOXIDE (1,000 TONS)	40	.42	.34	.13	.05		40
41	NITROGEN OXIDES (1,000 TONS)	41	7.04	5.96	1.60	2.09	.65	41
42	STACKS: - TOTAL NO.	42	8	6	1	1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	142.00 186.00	164.00 193.00	143.00 156.00	156.00	62.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45						45
46	SOLD (1,000 TONS) 11/	46					3.00	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51					28.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	200.00	94.00	46.00	47.00	19.50	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55						55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O SURFACE	M	C WHITE ROCK	T TRINITY	NAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	601.00	701.00	3.00	292.00	67.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	596.00	756.00	1.00	290.00	69.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	5.00	5.00	2.00	2.00 .59		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	JUN DEC			JUN DEC	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	91.00 47.00			82.00 42.00	88.00 47.00	66
67	AT OUTFALL, SUMMER - WINTER	67	91.00 47.00			98.00 62.00	102.00 58.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68					1,560.00	68
69	- WINTER	69	1.00				2,375.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/	70				H		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	1.70	1.20	13.55 .95	.65	.85	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	503.00	211.50	43.90	25.50	2.40	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		75.00		6.40		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	9.00	4.65	17.00	10.25	4.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	76	YES YES	YES YES	YES YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	PS	UT	PS	T	PS	77
78	RECEIVING WATER BODY	78		O N. LAKE RESVR		L RAY HUBBARD		78
79	POND DISCHARGE 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79	8.00	8.00		8.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	20.00	3.00		70.00	425.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	1,000,000.00	9,300.00	1,400.00		200.00	81
82	- ASH SETTLING	82					150.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83					3 29.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS	85	6 989.70	3 706.60		1 396.50		85
86	COOLING TOWERS	86			3 340.60			86
87	COMBINATION 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1938	1959	1953 1968	1970	1949 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	9.00 20.00	14.00 16.00	17.00 21.00	19.00	13.40 13.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,578.00	898.00	432.00	460.00	68.70	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91					68.70	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92						92
93	COOLING PONDS ($1,000)	93	4,333.00	3,555.00		2,488.00	470.00	93
94	COOLING TOWERS ($1,000)	94			3,447.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	58.00	21.00	86.00	20.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	2.00	1.00	10.00	2.00	.56	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	44.00	16.00	19.00	20.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	49.00	18.00	5.00	4.00	1.65	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	ATLANTIC CITY ELECTRIC CO.	DELMARVA POWER & LIGHT CO. OF MD.	DELMARVA POWER & LIGHT CO.	DELMARVA POWER & LIGHT CO.	DELMARVA POWER & LIGHT CO.		1
4	NAME OF PLANT	DEEPWATER	VIENNA	DELAWARE CITY	EDGE MOOR	INDIAN RIVER		4
5	UTILITY-PLANT CODE	128500-0100	129500-0300	130500-0100	130500-0200	130500-0300		5
6	STATE	NEW JERSEY	MARYLAND	DELAWARE	DELAWARE	DELAWARE		6
7	COUNTY	SALEM	DORCHESTER	NEW CASTLE	NEW CASTLE	SUSSEX		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045 02	114 02	045 02	045 02	046 02		8
9	PLANT CAPACITY (MW)	308.30	256.50	130.00	389.80	340.00		9
10	ANNUAL GENERATION (MWH)[3]	1,839,200	814,600	849,400	2,175,400	2,160,400		10
11	PLANT HEAT RATE (BTU/KWH)[3]	14,983	13,121	23,931	10,503	9,779		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)		35.00	355.30		834.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)		12,793	14,206		12,534		13
14	AVERAGE SULFUR CONTENT (%)		1.18	6.79		1.62		14
15	AVERAGE ASH CONTENT (%)		11.19	.30		10.92		15
16	AVERAGE MOISTURE CONTENT (%)		5.02	.57		6.56		16
17	OIL: CONSUMPTION (1,000 BARRELS)	4,073.04	1,599.00	1,282.20	3,422.20	38.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,001	146,000	151,923	149,283	137,635		18
19	AVERAGE SULFUR CONTENT (%)	.29	.91	3.67	.77	.25		19
20	GAS: CONSUMPTION (1,000 MCF)	2,835.12		1,935.50	1,262.90			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,031		997	1,030			21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	8	7	4	4	3		22
23	- NO. OF WET BOTTOM	5		4				23
24	- NO. WITH FLY ASH REINJECTION		1	4				24
25	- NO. WITH MECHANICAL PRECIPITATORS	7	6	3	3			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1			1			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]			1		3		27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00 30.00	15.00 29.00	20.00	20.00	20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	82.00 88.00	50.00 95.00		72.00 83.00			30
31	TESTED, LOW - HIGH	64.50 84.10	38.20 70.00		56.90 65.50			31
32	ESTIMATED, LOW - HIGH		50.00 87.50	75.00	72.00 83.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00		99.30	95.00	98.00 99.50		33
34	TESTED, LOW - HIGH	90.70		99.20		98.60		34
35	EST., LOW - HIGH	75.00			95.00	98.00 99.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.14	.85	.27	.09	.99		39
40	SULFUR DIOXIDE (1,000 TONS)	4.10	5.56	63.07	7.81	26.68		40
41	NITROGEN OXIDES (1,000 TONS)	9.53	3.79	8.53	7.79	7.59		41
42	STACKS: - TOTAL NO.	6	7	1	4	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	175.20 225.50	133.00 160.00	500.00	220.00	230.00 385.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.04			.05			44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		4.00	5.10		92.00		45
46	SOLD (1,000 TONS)[11]			5.10				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	373.50	134.00		253.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	218.20			200.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]					990.00		52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	313.70	86.00	265.00	281.00	686.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		20.00	6.00	1.60	50.00		55
56	REVENUES FROM SALE OF ASH ($1,000)			19.90	.70			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		20.00	6.00	8.60	50.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			19.90	.70			60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DELAWARE	R NANTICOKE	R DELAWARE	R DELAWARE	R INDIAN		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	400.00	220.00	150.00	630.00	614.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	400.00	215.50	150.00	630.00	614.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.44	4.50	1.29	5.42	5.28		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC	AUG OEC	JUL OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	91.00 55.00	80.00 40.00	85.00 51.00	82.00 41.00	84.00 42.00		66
67	AT OUTFALL, SUMMER - WINTER	102.00 67.00	90.00 50.00		90.00 59.00	95.00 56.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	362,000.00	20,000.00	5,000.00	5,000.00	2,507.00		68
69	- WINTER	362,000.00	20,000.00	12,000.00	12,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OTH[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	1.10	.50	2.71	.35	.25		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		3.70	1,286.95	3.65	34.50		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	7.47	.06	19.14				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	90.00		10.16	49.00	52.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH[17]	ST	PS	OT	ST	ST		77
78	RECEIVING WATER BODY	R DELAWARE			O DRAIN FIELD			78
79	POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	9.00	11.00		9.00	3.60		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	400.00 5,000.00		1,150.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	27,200.00	30.00					81
82	- ASH SETTLING		3,000.00		475.40	2,800.00		82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 357.00			83
84	ONCE THROUGH COOLING (SALINE)	4 261.10	7 94.50	3 130.00		3 340.00		84
85	COOLING POND(S)							85
86	COOLING TOWER(S)		1 150.00					86
87	COMBINATIONS[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1930 1958	1928 1971	1956 1961	1951 1966	1957 1970		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00 12.00	16.00 25.00	13.00		12.00 13.50		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	620.00	356.00	154.00	584.00	585.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	620.00	211.00	154.00	694.00	585.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,156.80	519.00		2,533.00	385.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		469.00					94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.00	11.00		150.40	15.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.90	6.00		5.90	10.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	63.00	7.00		75.00	25.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.10	4.00	48.10	11.60	10.00		98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	OENTON, CITY OF	DETROIT PUBLIC LIGHTING COMM.	OOVER, CITY OF	DUKE POWER CO.	DUKE POWER CO.	1
2						2
3						3
4 NAME OF PLANT	OENTON	MISTERSKY	MCKEE RUN	ALLEN	BUCK	4
5 UTILITY-PLANT CODE	132000-0100	136000-0100	138500-0100	139500-0200	139500-0500	5
6 STATE	TEXAS	MICHIGAN	DELAWARE	NORTH CAROLINA	NORTH CAROLINA	6
7 COUNTY	OENTON	WAYNE	KENT	GASTON	ROWAN	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	215 12	123 04	046 02	167 03	167 03	8
9 PLANT CAPACITY (MW)	123.80	174.00	37.50	1,155.00	533.00	9
10 ANNUAL GENERATION (MWH)[3]	393,500	664,400	155,600	8,089,600	2,884,700	10
11 PLANT HEAT RATE (BTU/KWH)[3]	12,420	11,703	14,147	9,332	10,814	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)		346.54	75.30	3,229.94	1,020.44	12
13 AVERAGE HEAT CONTENT (BTU/LB)		11,535	12,831	11,686	12,092	13
14 AVERAGE SULFUR CONTENT (%)		1.51	2.67	1.04	.93	14
15 AVERAGE ASH CONTENT (%)		10.64	11.58	14.55	12.29	15
16 AVERAGE MOISTURE CONTENT (%)		8.80	3.96	6.59	7.07	16
17 OIL: CONSUMPTION (1,000 BARRELS)	37.49		13.50	19.02	197.27	17
18 AVERAGE HEAT CONTENT (BTU/GAL)	142,000		146,000	140,000	138,087	18
19 AVERAGE SULFUR CONTENT (%)	.10		.90	.10	.25	19
20 GAS: CONSUMPTION (1,000 MCF)	4,282.90		186.30		5,217.47	20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,077		1,000		1,030	21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	4	10	2	5	9	22
23 - NO. OF WET BOTTOM		2				23
24 - NO. WITH FLY ASH REINJECTION						24
25 - NO. WITH MECHANICAL PRECIPITATORS			2			25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS				3	5	26
27 - NO. WITH COMBINATION PRECIPITATORS[4]		2		2		27
28 - NO. WITH DESULFURIZATION SYSTEMS						28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	.80 15.00	16.60 20.00	15.00 25.00	20.00	19.00 23.00	30
31 TESTED, LOW - HIGH			85.50 94.90			31
32 ESTIMATED, LOW - HIGH			82.10 82.20			32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		96.50 97.70		97.00 99.50	95.00 99.00	33
34 TESTED, LOW - HIGH				96.90 97.12	83.10	34
35 EST., LOW - HIGH		96.50 97.70		87.00 99.50	88.00 99.00	35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37 TESTED, LOW - HIGH						37
38 ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	7.67	1.30	29.22	9.68	39
40 SULFUR DIOXIDE (1,000 TONS)		10.26	4.20	65.84	18.60	40
41 NITROGEN OXIDES (1,000 TONS)	.92	4.72	.75	29.11	9.18	41
42 STACKS: - TOTAL NO.	4	6	1	5	9	42
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	47.00 100.00	195.00	175.00	252.25	176.30 215.50	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]		33.19		439.20	103.30	45
46 SOLD (1,000 TONS)[11]				5.60		46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51 ELECTROSTATIC PRECIPITATORS ($1,000)				5,344.00	7,418.00	51
52 COMBINATION PRECIPITATORS ($1,000)[4]		211.20		1,094.00		52
53 DESULFURIZATION SYSTEMS ($1,000)						53
54 STACKS ($1,000)		23.50		594.60	53.26	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		83.82		239.00	68.10	55
56 REVENUES FROM SALE OF ASH ($1,000)						56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		116.58		239.00	68.10	59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R DETROIT	M	L WYLIE	L HIGH ROCK	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	1.29	274.80		1,008.00	731.50	62
63 AVERAGE RATE OF DISCHARGE (CFS)	.26	274.80		1,008.00	731.50	63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.03	2.36		8.67	6.29	64
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUN OEC	AUG OEC	JUL OEC	JUL OEC	65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		72.00 43.00		87.00 57.00	84.00 50.00	66
67 AT OUTFALL, SUMMER - WINTER		79.00 53.00		108.00 86.00	100.00 72.00	67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1.15	210,000.00				68
69 - WINTER	.47	210,000.00				69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.01	.92	.11 .22	.03	.50	71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	8.77				72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	21.53		1.67		16.00	75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES	YES	76
77 SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]	PS	PS	PS	ST/OT	ST/OT	77
78 RECEIVING WATER BODY	M			L WYLIE	R YADKIN	78
79 POND DISCHARGE[19]: RH, BOILER BLOWDOWN - ASH SETTLING	7.60	10.90	2.00	10.70	9.00	79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	8.00	1,500.00	10.00			80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	55.00	668.90				81
82 - ASH SETTLING						82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		6 174.00		5 1,155.00	6 440.00	83
84 ONCE THROUGH COOLING (SALINE)						84
85 COOLING POND(S)						85
86 COOLING TOWER(S)	4 123.80		2 37.50			86
87 COMBINATIONS[21]						87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1955 1966	1927 1956	1961	1957 1961	1926 1953	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 16.00	10.00	20.00	17.70 18.00	11.70 13.90	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	102.00	443.50	42.30	1,214.10	900.00	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		212.50		1,334.00	900.00	91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93 COOLING PONDS ($1,000)				4,000.00	727.00	93
94 COOLING TOWERS ($1,000)	419.00					94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.40	21.83				95
96 COST OF CHEMICAL ADDITIVES ($1,000)	24.60	.57	7.40		2.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.30	12.33				97
98 COST OF CHEMICAL ADDITIVES ($1,000)	.70	2.35	.12	2.50	4.40	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	
4	NAME OF PLANT	CLIFFSIDE	DAN RIVER	LEE	MARSHALL	RIVERBEND	
5	UTILITY-PLANT CODE	139500-0800	139500-1000	139500-1900	139500-2200	139500-2600	
6	STATE	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	
7	COUNTY	RUTHERFORD	ROCKINGHAM	ANDERSON	CATAWBA	GASTON	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	165 03	136 03	202 03	165 03	167 03	
9	PLANT CAPACITY (MW)	781.00	290.00	345.00	2,600.00	1,1.00	
10	ANNUAL GENERATION (MWH) 3/	3,607,200	1,942,200	2,610,300	14,227,300	4,059,900	
11	PLANT HEAT RATE (BTU/KWH) 3/	10,271	10,348	10,038	8,670	10,605	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,497.72	829.23	1,046.95	5,283.59	1,395.30	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,369	11,974	11,861	11,488	11,972	
14	AVERAGE SULFUR CONTENT (%)	1.35	.83	1.14	.99	.93	
15	AVERAGE ASH CONTENT (%)	13.11	13.20	13.55	15.05	12.46	
16	AVERAGE MOISTURE CONTENT (%)	5.87	6.82	7.08	7.61	6.79	
17	OIL: CONSUMPTION (1,000 BARRELS)	20.77	5.17	10.62	328.95	734.80	
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000	138,172	138,533	
19	AVERAGE SULFUR CONTENT (%)	.10	.10	.10	.25	.20	
20	GAS: CONSUMPTION (1,000 MCF)			1,324.61		5,216.87	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,032		1,030	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	3	3	4	14		
23	- NO. OF WET BOTTOM	1						
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS		1	1	1			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	5	3	2	2	4		
27	- NO. WITH COMBINATION PRECIPITATORS 4/				2			
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 22.80	19.00 22.00	22.00	18.00	20.00 44.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00	85.00	85.00			
31	TESTED, LOW - HIGH			89.10				
32	ESTIMATED, LOW - HIGH			79.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	95.00 99.50	94.00 99.20	99.00	99.00 99.70	94.50 99.06		
34	TESTED, LOW - HIGH	87.60	98.73 99.55	99.10				
35	EST., LOW - HIGH	88.00 99.50	99.10 99.20	99.00	95.00 99.70	87.00 99.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	6.01	.79	11.99	15.14	17.09		
40	SULFUR DIOXIDE (1,000 TONS)	39.92	15.12	23.39	102.84	25.43		
41	NITROGEN OXIDES (1,000 TONS)	18.70	7.47	9.66	46.30	13.37		
42	STACKS: - TOTAL NO.	5	4	6	4	18		
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	154.00 500.00	180.00 188.00	213.00	280.50	71.08 226.75		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	173.40	105.20	141.90	739.70	154.40		
46	SOLD (1,000 TONS) 11/		.30		18.40			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		93.00	97.00	222.00			
51	ELECTROSTATIC PRECIPITATORS ($1,000)	6,701.00	3,693.00	1,716.00	7,664.00	7,104.00		
52	COMBINATION PRECIPITATORS ($1,000) 4/				3,612.00			
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	994.44	57.98	56.82	1,095.80	108.72		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	68.00	54.00	73.70	177.88	103.40		
56	REVENUES FROM SALE OF ASH ($1,000)		.60		36.70			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	68.00	54.00	73.70	177.88	107.90		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		.60		36.70			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, U, H & O EXPL. IN FOOTNOTES)	R BROAD	R DAN	R SALUDA	L NORMAN	L MTN. ISLAND		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	341.00	313.40	415.60	1,777.90	888.70		
63	AVERAGE RATE OF DISCHARGE (CFS)	303.00	313.40	411.40	1,777.90	888.70		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	38.00	2.70	4.20	15.29	7.64		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 45.00	78.00 49.00	82.00 51.00	68.00 48.30	78.00 45.00		
67	AT OUTFALL, SUMMER - WINTER	89.00 63.00	93.00 71.00	101.00 77.00	88.80 67.00	91.00 61.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							
69	- WINTER							
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.50 .05		.15				
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	137.50						
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	407.18						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.50	15.00					
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	ST/OT	OT	ST/OT	OT	ST/OT		
78	RECEIVING WATER BODY	R BROAD	R DAN	R SALUDA	L NORMAN	L MTN. ISLAND		
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	8.80		7.50	8.00	9.40		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING							

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 17/: ONCE THROUGH COOLING (FRESH)	4 210.00	3 290.00		4 2,000.00	7 631.00		
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)	1 571.00						
87	COMBINATIONS 21/			3 355.00				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1972	1949 1955	1951 1958	1965 1970	1929 1954		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	13.40 23.00	14.20 16.20	14.90 16.80	17.00 17.60	12.60 15.70		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	963.60	433.10	494.70	2,157.00	1,076.20		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	416.00	441.00	363.00	3,299.50	1,100.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	339.00	855.00	552.00	3,539.00	383.00		
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)	2,315.80		951.00				

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)							
96	COST OF CHEMICAL ADDITIVES ($1,000)	42.00	2.00					

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)							
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	.60	1.30	2.50	5.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	DUKE POWER CO.	DUKE POWER CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	
NAME OF PLANT	TIGER	GREENWOOD	COLFAX	ELRAMA	PHILLIPS	
UTILITY-PLANT CODE	139500-3000	139500-3200	140000-0100	140000-0200	140000-0300	
STATE	SOUTH CAROLINA	SOUTH CAROLINA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
COUNTY	SPARTANBURG	GREENWOOD	ALLEGHENY	WASHINGTON	ALLEGHENY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	202 03	203 03	197 05	197 05	197 05	
PLANT CAPACITY (MW)	30.00	34.10	262.50	510.00	411.00	
ANNUAL GENERATION (MWH)[3]	13,700	158,400	75,100	2,888,400	2,108,800	
PLANT HEAT RATE (BTU/KWH)[3]	31,113	14,031	32,410	10,635	11,781	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	29.81		99.12	1,407.75	1,093.55	
AVERAGE HEAT CONTENT (BTU/LB)	12,882		12,271	10,900	11,347	
AVERAGE SULFUR CONTENT (%)	.69		1.60	2.06	1.79	
AVERAGE ASH CONTENT (%)	9.58		14.80	20.13	17.10	
AVERAGE MOISTURE CONTENT (%)	4.51		5.00	6.13	5.85	
OIL: CONSUMPTION (1,000 BARRELS)		197.67	.08			
AVERAGE HEAT CONTENT (BTU/GAL)		138,172				
AVERAGE SULFUR CONTENT (%)		.25				
GAS: CONSUMPTION (1,000 MCF)		1,041.90				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,032				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	8	1	22	4	6	
- NO. OF WET BOTTOM		1				
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS			6			
- NO. WITH COMBINATION PRECIPITATORS[4]			2			
- NO. WITH DESULFURIZATION SYSTEMS				4	6	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	40.00	10.00	25.00 50.00	18.00 25.00	26.00	
TESTED, LOW - HIGH			91.60 92.20			
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			93.00 95.00	97.90 98.30	95.00 98.20	
TESTED, LOW - HIGH						
EST., LOW - HIGH				92.00	90.00 92.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.86	.03	.89	19.24	14.78	
SULFUR DIOXIDE (1,000 TONS)	.40	.17	3.11	57.94	36.58	
NITROGEN OXIDES (1,000 TONS)	.22	.64	.86	12.67	9.84	
STACKS: - TOTAL NO.	2	1	6	4	6	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	217.00	165.00	355.00 362.00	272.00 292.00	250.00 300.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	2.30		18.30	342.20	243.10	
SOLD (1,000 TONS)[11]			18.30			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			402.50			
ELECTROSTATIC PRECIPITATORS ($1,000)			319.20			
COMBINATION PRECIPITATORS ($1,000)[4]				1,803.50	2,485.60	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)			515.50	352.80	310.60	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	19.10		1.90	1,016.60	276.70	
REVENUES FROM SALE OF ASH ($1,000)			8.40			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	19.10		1.90	1,376.50	550.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			8.40			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MIDDLE TIGER	O PONDS	R ALLEGHENY	R MONONGAHELA	R OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.85	.36		589.50	619.10	
AVERAGE RATE OF DISCHARGE (CFS)	1.85			589.40	619.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		.38		.10	.10	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG DEC	5.07	5.32	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 55.00	80.00 60.00		AUG DEC	AUG DEC	
AT OUTFALL, SUMMER - WINTER	101.00 75.00			82.00 44.00	80.00 43.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				92.00 64.00	88.00 59.00	
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.53	2.34	1.30	.82	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.38				
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				18.00	42.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	ST	PS	
RECEIVING WATER BODY	R MIDDLE TIGER					
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		6.80		9.00	8.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				60.00	50.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING		11.60		343,000.00	328,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			4 262.50	4 425.00	4 315.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)		1 36.00				
COMBINATIONS[21]	2 30.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924	1956	1921 1927	1952 1960	1942 1956	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		20.00	12.00	20.00	20.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1.86	67.20	629.00	785.00	817.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1.87					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			751.60	1,981.00	1,113.40	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)		4.10		1.85	4.33	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)		.60	5.46	2.00	1.28	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	EAST KENTUCKY RURAL ELECTRIC COOP.	EAST KENTUCKY RURAL ELECTRIC COOP.	1
2							2
3							3
4	NAME OF PLANT	REED	SHIPPINGPORT	CHESWICK	COOPER	DALE	4
5	UTILITY-PLANT CODE	140000-0400	140000-0500	140000-0600	141500-0100	141500-0200	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	KENTUCKY	KENTUCKY	6
7	COUNTY	ALLEGHENY	BEAVER	ALLEGHENY	PULASKI	CLARK	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	197 05	197 05	197 05	105 05	102 05	8
9	PLANT CAPACITY (MW)	180.00	100.00	565.00	354.00	194.00	9
10	ANNUAL GENERATION (MWH) 3/	469,700	185,900	3,241,600	1,892,600	652,100	10
11	PLANT HEAT RATE (BTU/KWH) 3/	19,497		9,494	10,156	11,575	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	373.55		1,387.27	623.48	325.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,259		11,001	11,670	11,587	13
14	AVERAGE SULFUR CONTENT (%)	1.76		2.18	2.15	1.20	14
15	AVERAGE ASH CONTENT (%)	13.74		20.37	14.14	12.97	15
16	AVERAGE MOISTURE CONTENT (%)	4.61		5.54	5.54	8.09	16
17	OIL: CONSUMPTION (1,000 BARRELS)				2.47		17
18	AVERAGE HEAT CONTENT (BTU/GAL)				138,600		18
19	AVERAGE SULFUR CONTENT (%)				.12		19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6		1	2	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS				2	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			1			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS A(R USED (%), LOWEST BOILER - HIGHEST BOILER 5/	37.00		16.00	20.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				81.00 85.00	85.00	30
31	TESTED, LOW - HIGH				86.00 90.00		31
32	ESTIMATED, LOW - HIGH					65.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH			99.50			33
34	TESTED, LOW - HIGH			99.30			34
35	EST., LOW - HIGH			99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	33.26		2.41	11.18	5.40	39
40	SULFUR DIOXIDE (1,000 TONS)	12.45		59.82	34.66	7.90	40
41	NITROGEN OXIDES (1,000 TONS)	2.80		14.49	7.42	2.93	41
42	STACKS: - TOTAL NO.	2		1	1	2	42
43	- HEIGHT (FEET) (LOWEST - HIGHEST 8/	250.00		750.00	480.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	18.00		314.30	97.94	42.00	45
46	SOLD (1,000 TONS) 11/	50.70					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				170.00	129.56	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			1,473.00			51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	88.40		1,313.00	107.00	60.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	86.52		91.10	370.74		55
56	REVENUES FROM SALE OF ASH ($1,000)	10.14					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	154.06		266.50	370.74		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	10.14					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	R ALLEGHENY	P CUMBERLAND	L KENTUCKY	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	488.60	199.00	463.60	355.00	181.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)		198.60	463.60	351.00	181.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.20	1.71 .40	3.99	4.00 3.05		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC	JUL MAR	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		80.00 44.00	78.00 41.00		82.00 48.00	66
67	AT OUTFALL, SUMMER - WINTER		84.00 54.00	99.00 67.00	90.00 63.00	85.00 63.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				351.00	348.00	68
69	- WINTER				351.00	228.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.52	.01	.09	3.09	.38	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				5.30	2.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				12.50	5.00	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.50	16.00	27.00		1.00 2.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, GT 18/	OT	ST	PS	OT	ST	77
78	RECEIVING WATER BODY	P OHIO			R CUMBERLAND	R KENTUCKY	78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING					260,000.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 180.00	1 100.00	1 565.00	2 354.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATIONS 21/					4 176.00	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1930 1941	1956	1970	1963 1968	1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00	25.00	11.00	10.00	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	590.00	254.00	553.50	355.00	330.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			553.50	355.00	333.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	913.90	1,562.70	4,248.00	4,014.00	1,538.00	92
93	COOLING PONDS ($1,000)			742.00			93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.67	1.65	2.78	36.91		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.24	11.62	32.11	16.82	10.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	EL PASO ELECTRIC CO.	EL PASO ELECTRIC CO.	ELECTRIC ENERGY INC.	EMPIRE DIST. ELECTRIC CO.	EMPIRE DIST. ELECTRIC CO.	1
4 NAME OF PLANT	NEWMAN	RIO GRANDE	JOPPA	RIVERTON	ASBURY	4
5 UTILITY-PLANT CODE	144500-0100	144500-0200	145500-0100	149000-0300	149000-0400	5
6 STATE	TEXAS	NEW MEXICO	ILLINOIS	KANSAS	MISSOURI	6
7 COUNTY	EL PASO	DONA ANA	MASSAC	CHEROKEE	JASPER	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	153 13	153 13	072 05	098 11	139 11	8
9 PLANT CAPACITY (MW)	285.20	401.50	1,100.25	155.00	212.80	9
10 ANNUAL GENERATION (MWH)[3]	1,417,900	968,500	6,999,100	671,300	1,288,700	10
11 PLANT HEAT RATE (BTU/KWH)[3]	10,736	11,739	9,986	15,596	10,609	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)			3,099.00	36.33	654.47	12
13 AVERAGE HEAT CONTENT (BTU/LB)			11,374	12,822	10,271	13
14 AVERAGE SULFUR CONTENT (%)			2.64	3.83	4.82	14
15 AVERAGE ASH CONTENT (%)			10.70	12.97	24.73	15
16 AVERAGE MOISTURE CONTENT (%)			10.85	2.15	5.76	16
17 OIL: CONSUMPTION (1,000 BARRELS)	5.40	119.40	17.00	22.90		17
18 AVERAGE HEAT CONTENT (BTU/GAL)	150,513	146,452	140,000	154,705		18
19 AVERAGE SULFUR CONTENT (%)	1.21	.96	.10	1.46		19
20 GAS: CONSUMPTION (1,000 MCF)	14,935.00	9,981.00		8,812.06		20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,017	1,066		1,045		21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3	9	6	20	1	22
23 - NO. OF WET BOTTOM					1	23
24 - NO. WITH FLY ASH REINJECTION						24
25 - NO. WITH MECHANICAL PRECIPITATORS			6	2		25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS			6		1	26
27 - NO. WITH COMBINATION PRECIPITATORS[4]						27
28 - NO. WITH DESULFURIZATION SYSTEMS						28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00 5.00 15.00		18.00	17.00 35.00	13.00	29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00	85.00		30
31 TESTED, LOW - HIGH				85.10 85.30		31
32 ESTIMATED, LOW - HIGH				86.00		32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.60		98.20	33
34 TESTED, LOW - HIGH			98.70 98.90			34
35 EST., LOW - HIGH			98.50		92.00	35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37 TESTED, LOW - HIGH						37
38 ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.02	4.21	.57	1.29	39
40 SULFUR DIOXIDE (1,000 TONS)	.02	.36	157.36	2.86	61.83	40
41 NITROGEN OXIDES (1,000 TONS)	2.89	2.17	27.83	1.81	18.00	41
42 STACKS: - TOTAL NO.	3	9	3	4	1	42
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	121.00 128.00	104.00 142.00	250.00	120.00 250.00	400.00	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]			315.50	4.18	161.40	45
46 SOLD (1,000 TONS)[11]						46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			920.00	145.91		50
51 ELECTROSTATIC PRECIPITATORS ($1,000)			11,784.00		561.90	51
52 COMBINATION PRECIPITATORS ($1,000)[4]						52
53 DESULFURIZATION SYSTEMS ($1,000)						53
54 STACKS ($1,000)	35.00	118.00	756.00	143.87	401.15	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			115.60	7.30	70.30	55
56 REVENUES FROM SALE OF ASH ($1,000)						56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			115.60	7.30	70.30	59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	W	R OHIO	O SPRING	W	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	4.26	4.55	756.40	76.96	8.94	62
63 AVERAGE RATE OF DISCHARGE (CFS)		1.26	756.40	75.70		63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.04	3.29	6.51	.66 1.26	8.94	64
65 PEAK LOAD MONTH : SUMMER - WINTER[15]			JUL FEB	SEP JAN	AUG DEC	65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			88.00 39.00	83.20 45.30		66
67 AT OUTFALL, SUMMER - WINTER			112.00 72.00	94.10 56.40		67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			240,000.00	1,092.00		68
69 - WINTER			387,600.00	725.00		69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[15]						70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	8.13 .34	10.25 .84	6.95	.21	.02	71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.93	2.51	278.28	.21		72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP				15.18		73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.25	7.00	23.00	8.10	20.04	75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[16]	YES YES	YES YES	YES	YES YES	YES YES	76
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	SW	OT	77
78 RECEIVING WATER BODY[19]			R OHIO	R SPRING		78
79 POND DISCHARGE - PH, BOILER BLOWDOWN - ASH SETTLING	8.50		11.50	10.35 7.70	9.00 6.00	79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00		25.00	180.00 200.00	60.00	80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				137.56	2.00	81
82 - ASH SETTLING			432,000.00			82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			6 1,100.28	7 155.00		83
84 ONCE THROUGH COOLING (SALINE)						84
85 COOLING POND(S)						85
86 COOLING TOWER(S)	3 265.80	8 401.50			1 212.80	86
87 COMBINATION[21]						87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960 1966	1951 1972	1953 1955	1909 1954	1970	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	21.10 28.20	13.40 30.00	24.00	14.00 18.00	23.00	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	257.00	536.00	913.20	377.87	213.00	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			1,100.00	418.00		91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)			9,470.00	161.24		92
93 COOLING PONDS ($1,000)						93
94 COOLING TOWERS ($1,000)	753.00	1,232.00		23.99	513.05	94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	132.00	159.00	155.30	10.16	42.60	95
96 COST OF CHEMICAL ADDITIVES ($1,000)	17.00	13.10	3.00	3.28	51.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	13.80	91.90	17.46	10.60	97
98 COST OF CHEMICAL ADDITIVES ($1,000)	8.50	8.50	85.90	8.46	3.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	
NAME OF PLANT	AVON PARK	BAYBORO	CRYSTAL RIVER	TURNER	HIGGINS	
UTILITY-PLANT CODE	165500-0100	165500-0200	165500-0300	165500-0400	165500-0500	
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
COUNTY	HIGHLANDS	PINELLAS	CITRUS	VOLUSIA	PINELLAS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	051 03	052 03	052 03	048 03	052 03	
PLANT CAPACITY (MW)	61.00	51.30	964.30	201.60	138.00	
ANNUAL GENERATION (MWH)[3]	263,900	228,900	5,124,700	992,300	780,300	
PLANT HEAT RATE (BTU/KWH)[3]	12,959	14,338	9,643	11,764	11,865	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	291.00	525.00	7,900.00	482.00	1,359.00	
AVERAGE HEAT CONTENT (BTU/GAL)	148,795	148,839	148,932	149,576	148,719	
AVERAGE SULFUR CONTENT (%)	2.12	2.20	2.25	2.16	2.20	
GAS: CONSUMPTION (1,000 MCF)	1,540.00			8,337.00	739.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,040			1,037	1,039	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	3	2	5	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS			1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 20.00	15.00 20.00	15.00 25.00	10.00 18.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			95.00			
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.09	.62	.08	.23	
SULFUR DIOXIDE (1,000 TONS)	2.07	3.88	59.64	3.49	10.03	
NITROGEN OXIDES (1,000 TONS)	.94	1.16	17.42	2.69	3.14	
STACKS: - TOTAL NO.	3	2	2	6	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	149.00 196.00	202.00 203.00	499.00	150.00 237.00	174.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.85	.30			
TOTAL ASH: COLLECTED (1,000 TONS)[10]		.08	.13			
SOLD (1,000 TONS)[11]		.08	.13			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			750.00			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	48.00	65.00	1,194.00	141.00	52.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		.64	50.00		.50	
REVENUES FROM SALE OF ASH ($1,000)		7.10	22.80		.50	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		.64	50.00		.50	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		7.10	22.80		.50	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L LOTELA	B TAMPA	J GULF OF MEXICO	L MONROE	B TAMPA	
AVERAGE RATE OF WITHDRAWAL (CFS)	166.00	188.00	1,448.00	319.00	351.00	
AVERAGE RATE OF DISCHARGE (CFS)	166.00	188.00	1,448.00	319.00	351.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.43	1.62	12.45	2.74	3.02	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 77.00	90.00 68.00	89.00 70.00	92.00 80.00	94.00 81.00	
AT OUTFALL, SUMMER - WINTER	98.00 87.00	97.00 75.00	93.00 74.00	99.00 87.00	101.00 88.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.15	.05	.12	.13	1.71	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.05	.45	66.15	.08	9.17	
LIME (TONS), COOLING WATER - BOILER MAKEUP			126.70			
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.26	1.00				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING					5.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					200.00	
VOLUME (),000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	2 61.00		2 964.30	4 187.50		
ONCE THROUGH COOLING (SALINE)		3 51.30			3 138.00	
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[20]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1928 1952	1941 1949	1966 1969	1926 1959	1951 1954	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.00	10.00	10.00	10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	166.00	188.00	1,448.00	319.00	351.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	166.00	188.00	1,420.00	319.00	351.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	465.00	345.00	5,872.00	674.00	916.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.20	4.50	2.00	1.70	2.00
COST OF CHEMICAL ADDITIVES ($1,000)	.20	.90	29.00	1.70	2.80

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	10.00	80.00	17.50	15.00
COST OF CHEMICAL ADDITIVES ($1,000)	.40	1.10	44.00	5.60	5.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.		
NAME OF PLANT	INGLIS	BARTOW	SUWANNEE	CAPE KENNEDY	CUTLER		
UTILITY-PLANT CODE	165500-0600	165500-0800	165500-0900	166500-0100	166500-0200		
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA		
COUNTY	LEVY	PINELLAS	SUWANEE	BREVARD	DADE		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	052 03	052 03	049 03	048 03	050 03		
PLANT CAPACITY (MW)	53.80	494.40	147.00	804.78	351.50		
ANNUAL GENERATION (MWH)[3]	237,200	3,058,400	894,400	4,840,400	1,954,100		
PLANT HEAT RATE (BTU/KWH)[3]	15,939	9,678	11,135	9,724	11,342		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)	279.00	4,265.00	1,249.00	4,892.00	866.00		
AVERAGE HEAT CONTENT (BTU/GAL)	148,219	148,141	148,655	148,477	145,690		
AVERAGE SULFUR CONTENT (%)	2.20	2.20	2.14	1.44	1.01		
GAS: CONSUMPTION (1,000 MCF)	1,963.00	2,947.00	2,095.00	16,560.00	17,258.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,042	1,038	1,032	1,000	1,000		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	3	3	2	4		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION				2	4		
- NO. WITH MECHANICAL PRECIPITATORS				2	4		
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	14.00 16.00	2.50 7.00	13.00 18.00	10.00	10.00 20.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				84.00	88.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH				84.00	68.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.72	.21	.13	.02		
SULFUR DIOXIDE (1,000 TONS)	2.06	31.48	8.97	22.98	2.91		
NITROGEN OXIDES (1,000 TONS)	1.00	9.98	3.16	14.02	5.27		
STACKS: - TOTAL NO.	3	3	3	2	3		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	125.00	300.00	110.00 135.00	397.00	150.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.70					
TOTAL ASH: COLLECTED (1,000 TONS)[10]		.50	.02	.10			
SOLD (1,000 TONS)[11]		.50	.02				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				366.10	309.60		
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	39.00	480.30	71.00	839.60	195.90		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		4.00		128.30	13.00		
REVENUES FROM SALE OF ASH ($1,000)		52.70	2.00	3.90			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		4.00		128.30	13.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		52.70	2.00	3.90			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R WITHLACOOCHEE	B TAMPA	S SUWANNEE	S INDIAN	B BISCAYNE		
AVERAGE RATE OF WITHDRAWAL (CFS)	173.00	809.00	268.00	1,204.00	456.00		
AVERAGE RATE OF DISCHARGE (CFS)	173.00	809.00	268.00	1,204.00	456.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.49	6.96	2.30	10.35	3.92		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	JUL FEB	JUL FEB		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 66.00	93.00 76.00	74.00 66.00	93.00 75.00	95.00 82.00		
AT OUTFALL, SUMMER - WINTER	95.00 73.00	99.00 82.00	79.00 71.00	106.00 89.00	113.00 102.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,400.00		6,429.00				
- WINTER	1,400.00		6,429.00				
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	1.40	.05	.47	.43		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	5.46	81.90	.05	43.73			
LIME (TONS), COOLING WATER - BOILER MAKEUP				68.17	36.55		
ALUM (TONS), COOLING WATER - BOILER MAKEUP			2.23	3.51			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			.08	2.21	.55		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES	YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST		
RECEIVING WATER BODY							
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		5.50	5.50	8.00	7.50		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		200.00	200.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			.10				
- ASH SETTLING				4,690.00	673.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 53.80		3 147.00				
ONCE THROUGH COOLING (SALINE)		3 494.40		2 804.10	4 346.25		
COOLING PONDS(S)							
COOLING TOWERS(S)							
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1926 1947	1958 1963	1953 1956	1965 1969	1949 1955		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.00	10.00	14.10	14.90 18.10		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	173.00	809.00	268.00	1,226.00	484.30		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	173.00	869.00	268.00	1,280.00	504.50		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	409.00	3,913.00	1,254.00	1,649.30	2,134.60		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.00	1.00	5.00	36.50	19.20		
COST OF CHEMICAL ADDITIVES ($1,000)		46.00		12.30	3.70		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	20.00	6.00	36.30	18.90		
COST OF CHEMICAL ADDITIVES ($1,000)	2.30	40.00	3.40	11.70	6.20		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY		FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	
NAME OF PLANT		FORT MYERS	LAUDERDALE	MIAMI	PORT EVERGLADES	PALATKA	
UTILITY-PLANT CODE		166500-0400	166500-0500	166500-0600	166500-0900	166500-1000	
STATE		FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
COUNTY		LEE	BROWARD	DADE	BROWARD	PUTNAM	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/		051 03	050 03	050 03	050 03	049 03	
PLANT CAPACITY (MW)		558.80	312.50	46.00	1,255.00	109.60	
ANNUAL GENERATION (MWH) 3/		2,967,700	1,953,700	226,000	7,959,100	508,900	
PLANT HEAT RATE (BTU/KWH) 3/		9,741	10,511	13,694	9,886	11,521	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	4,687.00	1,642.00	150.00	6,453.00	852.00	
AVERAGE HEAT CONTENT (BTU/GAL)	146,843	146,805	145,181	146,156	147,305	
AVERAGE SULFUR CONTENT (%)	1.22	1.62	1.03	1.12	1.57	
GAS: CONSUMPTION (1,000 MCF)		10,413.00	2,177.00	26,805.00	144.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000	1,000	1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	2	4	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION	1		2	4		
- NO. WITH MECHANICAL PRECIPITATORS	1		2	4		
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00 14.00	14.00	15.00	10.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00		88.00	85.00 88.00		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	84.00		88.00	85.00 88.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.32	.28		.19	.15	
SULFUR DIOXIDE (1,000 TONS)	18.87	8.81	.50	31.20	4.95	
NITROGEN OXIDES (1,000 TONS)	10.33	5.65	.76	23.87	2.06	
STACKS: - TOTAL NO.	2	2	2	4	1	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	302.00 407.00	151.00	151.00	343.00 344.00	150.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				.10		
TOTAL ASH: COLLECTED (1,000 TONS) 10/				.10		
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			42.20	767.90		
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	188.30		40.40	1,347.50	35.20	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	71.50	30.60	6.00	68.20	16.60	
REVENUES FROM SALE OF ASH ($1,000)	5.00	4.50				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	71.50	30.60	6.00	68.20	16.60	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.00	4.50				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CALOOSAHATCHEE	O DANIA CANAL	R MIAMI	L MABLE	F ST. JOHN'S	
AVERAGE RATE OF WITHDRAWAL (CFS)	836.00	484.00	71.00	1,763.00	128.00	
AVERAGE RATE OF DISCHARGE (CFS)	836.00	484.00	71.00	1,763.00	128.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	7.19	4.16	.61	15.16	1.10	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL FEB	JUL FEB	JUL FEB	JUL FEB	JUL FEB	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	93.00 81.00	92.00 86.00	88.00 78.00	88.00 82.00	90.00 70.00	
AT OUTFALL, SUMMER - WINTER	106.00 94.00	96.00 90.00	120.00 101.00	103.00 96.00	107.00 86.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	546.00	125.00	460.00			
- WINTER	109.00	125.00	227.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.32	.33	.32	1.62	.22	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	210.90	50.00		366.72		
LIME (TONS), COOLING WATER - BOILER MAKEUP	46.72	27.50			.49	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	15.41	3.25			.05	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	29.00 2.48	21.50 .75	1.83	9.94 1.31	5.38	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	PS	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	7.50	7.50		7.50		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	1,500.00	250.00		1,600.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 558.80	2 312.50			2 109.60	
ONCE THROUGH COOLING (SALINE)			1 46.00	4 1,254.60		
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1969	1957 1958	1948	1960 1965	1951 1956	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	11.20 14.10	13.20	19.20	13.10 14.10	13.30 18.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	868.00	516.00	71.75	1,940.00	186.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	906.00	532.00	81.30	1,994.00	200.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,016.60		847.60	5,170.60	620.30	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	68.10	21.80	23.70	125.80	24.70	
COST OF CHEMICAL ADDITIVES ($1,000)	5.30	3.00	.40	1.30	1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.60	32.90	17.40	27.70	18.20	
COST OF CHEMICAL ADDITIVES ($1,000)	24.20	7.30	.50	43.40	.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	GARLAND MUNICIPAL UTILITIES	GARLAND MUNICIPAL UTILITIES		1
2								2
3								3
4	NAME OF PLANT	RIVERIA	SANFORD NEW	TURKEY POINT	NEWMAN	OLINGER		4
5	UTILITY-PLANT CODE	166500-1100	166500-1200	166500-1300	177500-0100	177500-0300		5
6	STATE	FLORIDA	FLORIDA	FLORIDA	TEXAS	TEXAS		6
7	COUNTY	PALM BEACH	VOLUSIA	DADE	DALLAS	DALLAS		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	050 03	048 03	050 03	215 12	215 12		8
9	PLANT CAPACITY (MW)	739.79	592.95	804.10	96.50	188.64		9
10	ANNUAL GENERATION (MWH) [3]	3,473,500	1,766,500	4,093,300	197,200	666,500		10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,416	10,080	9,896	12,733	10,948		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)							12
13	AVERAGE HEAT CONTENT (BTU/LB)							13
14	AVERAGE SULFUR CONTENT (%)							14
15	AVERAGE ASH CONTENT (%)							15
16	AVERAGE MOISTURE CONTENT (%)							16
17	OIL: CONSUMPTION (1,000 BARRELS)	3,805.00	2,857.00	4,616.00	36.83	9.43		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,353	146,736	146,233	139,845	138,900		18
19	AVERAGE SULFUR CONTENT (%)	1.00	1.41	1.26	.35	.10		19
20	GAS: CONSUMPTION (1,000 MCF)	12,944.00	200.00	12,152.00	2,238.41	7,134.63		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000	1,000	1,023	1,015		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	5	2	2	5	2		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION	5	1	2				24
25	- NO. WITH MECHANICAL PRECIPITATORS	5	1	2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 15.00	10.00 14.00	10.00	7.00 8.00	8.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	78.50 88.00	84.00	84.00				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	78.50 88.00	84.00	84.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.08	.30	.12	.01			39
40	SULFUR DIOXIDE (1,000 TONS)	12.77	13.42	20.13	.04			40
41	NITROGEN OXIDES (1,000 TONS)	10.91	6.34	12.55	.52	1.41		41
42	STACKS: - TOTAL NO.	4	2	2	5	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00 298.00	302.00 400.00	400.00	60.00 70.00	81.00 128.60		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			.10				44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	.10		.10				45
46	SOLD (1,000 TONS) [11]	.50						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	325.60	300.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	458.40	856.30		66.00	65.40		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	36.50	26.60	36.80				55
56	REVENUES FROM SALE OF ASH ($1,000)	24.80	2.70	8.50				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	36.50	26.60	36.80				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	24.80	2.70	8.50				60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L NORTH	R ST JOHNS	B BISCAYNE	M	L LAVON		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,053.00	255.30	2,638.00		258.73		62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,053.00	227.00	2,638.00		258.51		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	9.06	28.00	22.69	.62	2.23 1.18		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL FEB	JUL FEB	JUL FEB	AUG JAN	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 79.00	93.00 74.00	93.00 79.00		91.00 58.00		66
67	AT OUTFALL, SUMMER - WINTER	107.00 91.00	107.00 92.00	106.00 89.00		102.00 65.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					230.00		68
69	- WINTER					45.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C [16]		H	C				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.55	1.81	.45	.09	.05		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	171.05	143.54	137.00	4.88	30.50		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		45.14	69.18		1.60		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		9.67					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.45 .78	4.00 1.17	18.89	3.95	3.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.50	9.70 7.60	7.50				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		27,300.00					81
82	- ASH SETTLING	400.00	273,000.00	800.00				82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 156.35			2 188.64		83
84	ONCE THROUGH COOLING (SALINE)	4 739.59		3 1,564.07				84
85	COOLING POND(S)		1 436.10					85
86	COOLING TOWER(S)				5 96.50			86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1946 1963	1959 1972	1967 1972	1957 1963			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.30 17.00	11.40 15.30	14.10 16.05	12.00 14.50	12.00 17.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,124.00	807.20	2,616.00	207.10	290.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,200.00	266.00	2,790.00		303.20		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	5,093.70	720.90			485.00		92
93	COOLING PONDS ($1,000)		5,699.00					93
94	COOLING TOWERS ($1,000)				407.80			94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.90	17.20	10.30	28.40	35.70		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.80	.60	3.30	8.70	.28		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	37.30	31.80	26.30	14.70	12.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	12.20	5.20	10.00	2.30	1.10		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.		
NAME OF PLANT	ARKWRIGHT	ATKINSON	HAMMOND	HARLLEE BRANCH	MCDONOUGH		
UTILITY-PLANT CODE	179000-0100	179000-0200	179000-0900	179000-1000	179000-1100		
STATE	GEORGIA	GEORGIA	GEORGIA	GEORGIA	GEORGIA		
COUNTY	8188	C088	FLOYD	PUTNAM	C088		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	054 03	056 03	055 03	054 03	056 03		
PLANT CAPACITY (MW)	181.00	258.00	953.00	1,746.00	598.00		
ANNUAL GENERATION (MWH)[3]	1,046,700	1,572,700	3,893,300	7,417,600	3,725,300		
PLANT HEAT RATE (BTU/KWH)[3]	12,629	14,534	11,126	9,724	9,367		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	410.00	156.00	1,964.00	2,979.00	1,244.00		
AVERAGE HEAT CONTENT (BTU/LB)	11,611	12,142	11,413	12,130	11,791		
AVERAGE SULFUR CONTENT (%)	1.46	1.04	2.85	1.19	1.00		
AVERAGE ASH CONTENT (%)	14.80	12.09	11.06	11.04	13.52		
AVERAGE MOISTURE CONTENT (%)	6.04	6.29	10.07	6.54	6.47		
OIL: CONSUMPTION (1,000 BARRELS)			12.00	8.70			
AVERAGE HEAT CONTENT (BTU/GAL)			140,000	136,000			
AVERAGE SULFUR CONTENT (%)			.10	.20			
GAS: CONSUMPTION (1,000 MCF)	3,674.00	18,760.00			5,796.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,033	1,031			1,031		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	4	4	2		
- NO. OF WET BOTTOM			4	4	2		
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS			1				
- NO. WITH ELECTROSTATIC PRECIPITATORS	3	5	4	4	2		
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	22.00		18.00 23.00	18.00 20.00	18.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		84.00				
TESTED, LOW - HIGH	72.20						
ESTIMATED, LOW - HIGH	70.00						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00	90.00	98.20 98.70	98.00 98.50	98.00		
TESTED, LOW - HIGH	82.00 95.30	59.00 67.00	97.70 98.00	95.00 96.00	91.00 96.00		
EST., LOW - HIGH	80.00 93.00	60.00 85.00			91.00 96.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	9.35	3.31	2.91	7.21	6.94		
SULFUR DIOXIDE (1,000 TONS)	11.72	3.24	107.78	70.07	24.14		
NITROGEN OXIDES (1,000 TONS)	4.41	5.09	29.40	44.69	19.79		
STACKS: - TOTAL NO.	4	5	3	4	4		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	144.00	180.00	200.00 500.00	300.00 500.00	229.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	60.70	18.60	212.90	318.80	168.00		
SOLD (1,000 TONS)[11]	3.90				60.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)			2,567.00				
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)			1,280.00	1,083.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	153.40	46.00	158.00	366.00	175.00		
REVENUES FROM SALE OF ASH ($1,000)	.39				6.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	153.40	46.00	158.00	366.00	175.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	.39				6.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MULGEE	R CHATTAHOOCHEE	P COOSA	L SINCLAIR	R CHATTAHOOCHEE		
AVERAGE RATE OF WITHDRAWAL (CFS)	345.50	668.00	695.00	1,172.00	608.00		
AVERAGE RATE OF DISCHARGE (CFS)	344.00	668.00	695.00	1,172.00	608.00		
AVE. RATE OF CONSUMPTION (CFS); CALCULATED - REPORTED[14]	2.97 1.50	5.74	5.98	10.08	5.23		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 55.40	68.00 55.00	82.00 47.00	77.00 56.00	68.00 55.00		
AT OUTFALL, SUMMER - WINTER	119.00 96.40	84.00 68.00	97.00 65.30	97.00 71.00	82.00 64.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,400.00		2,797.00	1,397.00			
- WINTER	3,700.00		13,328.00	1,457.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.04	.53	.08				
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.08	.73	420.23	7.61			
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP			160.00	134.66			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.00	99.00	5.00 1.35	16.00 4.05	180.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	SW	CT		
RECEIVING WATER BODY							
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.80		10.00	9.40	4.60		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	65.00			15.00	8.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	7,148.52		500,000.00	440,200.00	172,150.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 181.00	4 240.00	3 375.00	4 1,746.00	2 490.00		
ONCE THROUGH COOLING (SALINE)			1 578.00				
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1948	1930 1948	1954 1970	1965 1969	1963 1964		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.70		10.00 26.00	16.70 18.50	17.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	350.00		853.00	1,763.00	608.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	350.00		699.00	1,763.00	609.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					811.50		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.00	81.00	36.00	18.00	104.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	15.00	1.00	2.00	24.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	24.90	49.00	165.00	244.00	129.00		
COST OF CHEMICAL ADDITIVES ($1,000)	1.80	2.00	58.00	51.00	5.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GLENDALE PUBLIC SERVICE DEPT.		
4	NAME OF PLANT	MCMANUS	MITCHELL	YATES	BOWEN	GLENOALE		
5	UTILITY-PLANT CODE	179000-1500	179000-2500	179000-2600	179000-2800	182500-0100		
6	STATE	GEORGIA	GEORGIA	GEORGIA	GEORGIA	CALIFORNIA		
7	COUNTY	GLYNN	OOUGHERTY	COWETA	BARTOW	LOS ANGELES		
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	049 03	059 03	056 03	055 03	024 18		
9	PLANT CAPACITY (MW)	144.00	218.00	680.00	1,595.00	148.00		
10	ANNUAL GENERATION (MWH)[3]	878,900	1,217,800	3,845,100	4,192,000	462,700		
11	PLANT HEAT RATE (BTU/KWH)[3]	10,782	11,082	10,579	11,310	12,219		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	10.40	585.30	1,556.00	2,031.95			
13	AVERAGE HEAT CONTENT (BTU/LB)	11,360	11,465	12,056	11,666			
14	AVERAGE SULFUR CONTENT (%)	1.80	1.59	1.82	2.36			
15	AVERAGE ASH CONTENT (%)	14.50	15.47	10.13	11.60			
16	AVERAGE MOISTURE CONTENT (%)	7.10	6.25	7.56	8.24			
17	OIL: CONSUMPTION (1,000 BARRELS)	1,517.20	3.00			438.00		
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,090	136,000			148,800		
19	AVERAGE SULFUR CONTENT (%)	2.28	.10			.44		
20	GAS: CONSUMPTION (1,000 MCF)			2,563.00		2,809.00		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,029		1,056		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3	5	2	6		
23	- NO. OF WET BOTTOM			5				
24	- NO. WITH FLY ASH REINJECTION	2						
25	- NO. WITH MECHANICAL PRECIPITATORS			2				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	3	3	2			
27	- NO. WITH COMBINATION PRECIPITATORS[4]							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	17.00 19.00	18.00 20.00	20.00	18.00	8.00 15.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			78.00				
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH							
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	98.00	98.30 98.60	98.00			
34	TESTED, LOW - HIGH	99.13 99.32	78.00 94.00	96.70 96.80	98.12			
35	EST., LOW - HIGH	98.00	80.00 96.00	96.20 98.10	98.00 98.12			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.06	5.73	3.33	3.86	.07		
40	SULFUR DIOXIDE (1,000 TONS)	11.97	16.06	59.01	93.99	.65		
41	NITROGEN OXIDES (1,000 TONS)	3.42	5.27	24.02	18.29	1.51		
42	STACKS: - TOTAL NO.	1	2	3	1	6		
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	185.00	115.00 211.00	175.00	1,000.00	60.00 100.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	1.50	85.30	159.00	235.91			
46	SOLD (1,000 TONS)[11]				14.78			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
51	ELECTROSTATIC PRECIPITATORS ($1,000)				2,308.00			
52	COMBINATION PRECIPITATORS ($1,000)[4]							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)				3,706.00			
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	60.60	179.00	133.20	120.00			
56	REVENUES FROM SALE OF ASH ($1,000)				3.67			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	60.60	184.00	133.20	137.50			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				3.67			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R TURTLE	R FLINT	R CHATTAHOOCHEE	R ETOWAH	W		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	245.00	233.50	187.00	67.00			
63	AVERAGE RATE OF DISCHARGE (CFS)	245.00	233.40	187.00	19.00			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.11	2.01 .10	1.61	48.00	1.70		
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUL JAN	JUL OEC	JUL OEC			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	93.00 63.00	83.00 56.00	91.00 46.00				
67	AT OUTFALL, SUMMER - WINTER	109.00 90.00	95.00 67.00	110.00 64.00				
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		253.80					
69	- WINTER		208.90					
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]					C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	.09	.17		5.48 .10		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.16	.18	5.23	743.44	5.11		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	9.57						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				200.59			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	132.00	5.00	80.00	73.00 4.13	15.67		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST		ST	OT			
78	RECEIVING WATER BODY				D ASH POND			
79	POND DISCHARGE[19]: RH, BOILER BLOWDOWN - ASH SETTLING	7.50	8.10	8.00	9.00			
80	SUSPENDED SOLIDS (RPM), BOILER BLOWDOWN - ASH SETTLING	17.20	26.00	20.00	25.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING		109,000.00	65,000.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		3 217.00	5 678.00				
84	ONCE THROUGH COOLING (SALINE)	2 144.00						
85	COOLING PONDS(S)							
86	COOLING TOWER(S)				2 1,595.00	4 120.00		
87	COMBINATIONS[21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1959	1948 1964	1950 1958	1971 1972	1953 1964		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.50 14.90	10.00 16.00	15.00	25.00	15.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	216.00	312.00	875.00	1,150.00	244.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	216.00	312.00	875.00				

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)				7,470.00	1,125.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.00	19.00	181.40	27.90			
96	COST OF CHEMICAL ADDITIVES ($1,000)	18.00	.70	12.00		26.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	58.00	37.00	50.30	263.26			
98	COST OF CHEMICAL ADDITIVES ($1,000)	34.00	1.00	5.90		3.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	CITY OF GRAND ISLAND WTR & LIGHT DEPT.	GRAND RIVER DAM AUTHORITY	BURLINGTON ELEC. LIGHT DEPT.	GULF RGWER CO.	GULF POWER CO.	
NAME OF PLANT	BURDICK	CHOUTEAU	MORAN	CRIST	SCHOLTZ	
UTILITY-PLANT CODE	187500-0100	188500-0100	193000-0100	195000-0100	195000-0200	
STATE	NEBRASKA	OKLAHOMA	VERMONT	FLORIDA	FLORIDA	
COUNTY	HALL	MAYES	CHITTENDEN	ESCAMBIA	JACKSON	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	146 10	186 18	154 01	003 03	003 03	
PLANT CAPACITY (MW)	92.50	56.25	30.00	651.00	98.00	
ANNUAL GENERATION (MWH) 3/	197,500	278,800	79,400	2,840,000	433,300	
PLANT HEAT RATE (BTU/KWH) 3/	12,546	26,478	18,618	11,311	12,618	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			33.00	1,041.30	224.30	
AVERAGE HEAT CONTENT (BTU/LB)			12,673	11,639	12,187	
AVERAGE SULFUR CONTENT (%)			1.46	3.29	1.84	
AVERAGE ASH CONTENT (%)			11.95	10.92	15.59	
AVERAGE MOISTURE CONTENT (%)			4.75	8.59	5.04	
OIL: CONSUMPTION (1,000 BARRELS)	26.70			324.40	.12	
AVERAGE HEAT CONTENT (BTU/GAL)	150,000			145,625	140,000	
AVERAGE SULFUR CONTENT (%)	.90			2.60	.10	
GAS: CONSUMPTION (1,000 MCF)	2,457.20	7,202.00	591.70	5,858.70		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	940	1,025	1,000	1,000		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	6	3	6	2	
- NO. OF WET BOTTOM			3			
- NO. WITH FLY ASH REINJECTION			3		2	
- NO. WITH MECHANICAL PRECIPITATORS				3		
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00	20.00	32.00	10.00 18.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			96.50		64.50	
TESTED, LOW - HIGH			32.90			
ESTIMATED, LOW - HIGH			32.90		65.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				98.00 98.20		
TESTED, LOW - HIGH				93.06 96.50		
EST., LOW - HIGH				99.30 99.70		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			2.15	.50	10.41	
SULFUR DIOXIDE (1,000 TONS)	.08		.92	70.18	7.91	
NITROGEN OXIDES (1,000 TONS)	.54	1.40	.36	11.23	2.02	
STACKS: - TOTAL NO.	3	6	3	4	1	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	111.50	150.00	150.00	125.00 450.00	150.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/			3.90	109.90	27.00	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			54.00		106.00	
ELECTROSTATIC PRECIPITATORS ($1,000)				1,674.00		
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	57.00	78.00	24.00	766.90	58.10	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			45.00	346.00	48.80	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			45.00	352.30	55.10	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R GRAND	L CHAMPLAIN	R ESCAMBIA	R APALACHICOLA	
AVERAGE RATE OF WITHDRAWAL (CFS)	7.85	2.23	39.30	676.00	174.00	
AVERAGE RATE OF DISCHARGE (CFS)	7.85	.90	38.50	676.00	174.00	
AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED 14/		1.33	.80		1.50	
PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG JAN	OCT FEB	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		112.00 80.00	52.00 35.50	89.00 66.00	87.00 63.00	
AT OUTFALL, SUMMER - WINTER		99.00 64.00	64.00 42.00	113.00 95.00	105.00 75.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		.90		1,220.00	13,300.00	
- WINTER		1.51		10,400.00	33,700.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	H					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.01	5.54	.15	1.00	2.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	28.49	452.35		184.26	.95	
LIME (TONS), COOLING WATER - BOILER MAKEUP		4.29 5.86				
ALUM (TONS), COOLING WATER - BOILER MAKEUP		16.58 22.58				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.76	5.79 7.37		54.00	.15	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	OT YES	YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/		ST		ST		
RECEIVING WATER BODY		C RR YDR				
POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING				5.10	7.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				50.00	50.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING				125,134.00	168.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 38.50		3 30.00	5 281.26	2 98.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		4 25.00				
COOLING TOWER(S)		2 31.25				
COMBINATIONS 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1972	1962 1950	1954	1965 1970	1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	17.00 35.00	12.00 16.00	14.00	13.00 22.00	12.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	146.30	75.66	68.10	760.00	192.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			240.60	785.00	202.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			141.00	2,097.60	576.30	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	300.00			3,938.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.00		4.50	18.90	1.70	
COST OF CHEMICAL ADDITIVES ($1,000)	4.00			55.80	.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00			30.80	20.80	
COST OF CHEMICAL ADDITIVES ($1,000)	4.00			9.70	1.80	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	GULF POWER CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	
NAME OF PLANT	SMITH	LOUISIANA #1	LOUISIANA #2	NECHES	NELSON	
UTILITY-PLANT CODE	195000-0300	195500-0100	195500-0200	195500-0300	195500-0400	
STATE	FLORIDA	LOUISIANA	LOUISIANA	TEXAS	LOUISIANA	
COUNTY	BAY	EAST BATON ROUGE	EAST BATON ROUGE	JEFFERSON	CALCASIEU	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	005 03	106 08	106 08	106 12	106 08	
PLANT CAPACITY (MW)	340.00	253.00	175.00	452.27	982.27	
ANNUAL GENERATION (MWH)[3]	1,827,500	1,465,700	1,238,700	2,289,200	3,216,300	
PLANT HEAT RATE (BTU/KWH)[3]	10,566	31,184	12,456	11,201	10,569	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	849.00					
AVERAGE HEAT CONTENT (BTU/LB)	11,348					
AVERAGE SULFUR CONTENT (%)	2.97					
AVERAGE ASH CONTENT (%)	13.01					
AVERAGE MOISTURE CONTENT (%)	11.73					
OIL: CONSUMPTION (1,000 BARRELS)		35.51	6.90	14.60	245.21	
AVERAGE HEAT CONTENT (BTU/GAL)		151,725	151,483	156,091	138,745	
AVERAGE SULFUR CONTENT (%)		1.60	1.42	.60	.25	
GAS: CONSUMPTION (1,000 MCF)		41,840.00	14,216.00	25,256.00	30,504.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,087	1,082	1,011	1,071	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	11	3	6	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	2					
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	10.00	10.00	15.00	7.00 10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00					
TESTED, LOW - HIGH						
EST., LOW - HIGH	96.80 98.70					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	2.13	.48	.39		.04	
SULFUR DIOXIDE (1,000 TONS)	49.92	15.42	12.52	.03	.21	
NITROGEN OXIDES (1,000 TONS)	7.64	13.97	7.92	4.96	6.49	
STACKS: - TOTAL NO.	1	11	2	8	6	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00	150.50 167.00	150.00 179.00	138.00 225.00	165.00 217.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	104.93					
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	589.00					
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	107.50					
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	143.70					
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	150.00					
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B NORTH	R MISSISSIPPI	W	R NECHES	M	
AVERAGE RATE OF WITHDRAWAL (CFS)	376.00	2.20	5.06	370.70	2.90	
AVERAGE RATE OF DISCHARGE (CFS)	376.00	1.06	.51	366.70	1.48	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.23	1.14	4.56	2.67	1.42	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG APR	AUG APR	AUG APR	AUG APR	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	98.00 78.00	86.00 64.00	86.00 64.00	95.00 70.00		
AT OUTFALL, SUMMER - WINTER	114.00 100.00			108.00 81.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		303,900.00	303,900.00	396.00		
- WINTER		535,700.00	535,700.00	1,557.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	.45	5.33	2.17	.62	.39	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	39.03	1,047.22	17.27	159.97	210.41	
LIME (TONS), COOLING WATER - BOILER MAKEUP		1,129.48				
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.23	4.00	4.00	142.00	60.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	OT	OT	ST	ST	
RECEIVING WATER BODY		R MISSISSIPPI	R MISSISSIPPI	P NECHES	O FILTER BED	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.50		9.90			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			17,740.00			
- ASH SETTLING	68,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 225.00		
ONCE THROUGH COOLING (SALINE)	2 340.00					
COOLING POND(S)						
COOLING TOWER(S)		3 60.00	3 175.00	2 227.28	4 982.28	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1967	1938 1943	1950 1953	1937 1956	1959 1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	16.00 19.40	19.00	13.97 14.98	11.00 12.00	19.00 20.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	403.00	100.26	262.90	612.40	934.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	423.00			363.60		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,069.50			362.00		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		503.00	1,864.00	2,570.00	10,217.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.50			21.00	31.00	
COST OF CHEMICAL ADDITIVES ($1,000)	16.60	9.00	1.00	15.00	29.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.80	461.00	7.00	66.00	69.00	
COST OF CHEMICAL ADDITIVES ($1,000)	7.40	290.00	1.00	33.00	46.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	HAMILTON MUNC. ELECTRIC RLT.	HAWAIIAN ELECTRIC CO. INC.		
4	NAME OF PLANT	SABINE	WILLOW GLEN	LEWIS CREEK	HAMILTON	HONOLULU		
5	UTILITY-PLANT CODE	195500-0500	195500-0600	195500-0700	197500-0100	201500-0100		
6	STATE	TEXAS	LOUISIANA	TEXAS	OHIO	HAWAII		
7	COUNTY	ORANGE	IBERVILLE	MONTGOMERY	BUTLER	HONOLULU		
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	106 12	106 08	216 12	079 05	060 22		
9	PLANT CAPACITY (MW)	952.00	994.36	542.88	83.50	168.00		
10	ANNUAL GENERATION (MWH) 3/	5,019,100	5,150,100	2,902,600	276,100	534,000		
11	PLANT HEAT RATE (BTU/KWH) 3/	10,008	10,096	10,021	12,420	12,544		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)				81.76			12
13	AVERAGE HEAT CONTENT (BTU/LB)				12,500			13
14	AVERAGE SULFUR CONTENT (%)				.75			14
15	AVERAGE ASH CONTENT (%)				9.00			15
16	AVERAGE MOISTURE CONTENT (%)				3.00			16
17	OIL: CONSUMPTION (1,000 BARRELS)	12.80	83.88	.49	46.50	1,096.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	136,144	137,600	136,000	145,333		18
19	AVERAGE SULFUR CONTENT (%)	.15	.30	.16	.20	.34		19
20	GAS: CONSUMPTION (1,000 MCF)	49,621.00	48,391.00	28,676.00	1,374.70			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,012	1,064	1,014	1,000			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	4	2	8	6		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION				1			24
25	- NO. WITH MECHANICAL PRECIPITATORS				4			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS 4/							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00	7.00 10.00	10.00	3.00 50.00	13.00 20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				88.00 97.00			30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH				70.00 85.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.01		1.12	.18		39
40	SULFUR DIOXIDE (1,000 TONS)	.01	.08		1.23	1.10		40
41	NITROGEN OXIDES (1,000 TONS)	9.70	9.62	5.59	1.06	2.42		41
42	STACKS: - TOTAL NO.	6	7	2	5	6		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	148.50 188.00	167.00 196.60	189.00	131.00 260.00	141.00 161.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/				7.60			45
46	SOLD (1,000 TONS) 11/							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				140.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) 4/							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	630.00	202.20		126.00	159.80		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				17.00			55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 12/				17.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L SABINE	R MISSISSIPPI	R SAN JACINTO	R GREAT MIAMI	O PACIFIC OCEAN		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	945.00	748.72	5.00	82.00	316.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	937.00	748.72		81.00	316.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	8.13 8.00	6.44 9.84	5.00	.71 1.00	2.72		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG APR	AUG APR	AUG APR	AUG DEC	JUL OCT		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	94.00 86.00	86.00 64.00		87.00 45.00	80.00 78.00		66
67	AT OUTFALL, SUMMER - WINTER	106.00 95.00	98.00 71.00		101.00 55.00	91.00 90.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	396.00	303,900.00		1,090.00			68
69	- WINTER	1,557.00	535,700.00		1,948.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, OT 16/							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.40	.16	.30	.15			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.20	142.81	.05	.25	.13		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	575.00			15.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	OT	PS	PS		77
78	RECEIVING WATER BODY		O BAYOU MANCHAC	L PRIVATE				78
79	POND DISCHARGE 19/ PH, BOILER BLOWDOWN - ASH SETTLING				10.00	11.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					1.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				.40	.91		81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)		3 994.36		7 83.50			83
84	ONCE THROUGH COOLING (SALINE)	3 952.00				4 168.15		84
85	COOLING PONDS			2 542.88				85
86	COOLING TOWERS							86
87	COMBINATIONS 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1966	1960 1968	1970	1929 1965	1930 1957		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	13.00 16.00	20.00	15.00	22.00	7.00 13.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,310.30	893.00	798.00	193.00	457.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,311.00			263.00	461.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	649.00	9,092.00		400.00	1,174.54		92
93	COOLING PONDS ($1,000)			9,242.00				93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	39.00	38.00	1.14	4.00	35.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	35.00	37.00	1.00	8.00			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	62.00	50.00	27.00	10.00	12.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	37.00	30.00	11.00	15.00	2.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HOLYOKE GAS & ELECTRIC DEPT.	HOLYOKE WATER POWER CO.	
4 NAME OF PLANT	KAHE	WAIAU	KAHULUI	HOLYOKE	MOUNT TOM	
5 UTILITY-PLANT CODE	2C1500-0200	201500-0300	201500-0400	213500-0200	214500-0500	
6 STATE	HAWAII	HAWAII	HAWAII	MASSACHUSETTS	MASSACHUETTS	
7 COUNTY	HONOLULU	HONOLULU	MAUI	HAMPDEN	HAMPDEN	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	060 22	060 22	060 22	042 01	042 01	
9 PLANT CAPACITY (MW)	339.95	395.00	34.93	30.00	136.00	
10 ANNUAL GENERATION (MWH) 3/	1,906,000	1,731,700	215,000	132,100	941,600	
11 PLANT HEAT RATE (BTU/KWH) 3/	9,879	10,614	14,025	24,378	9,703	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)						
13 AVERAGE HEAT CONTENT (BTU/LB)						
14 AVERAGE SULFUR CONTENT (%)						
15 AVERAGE ASH CONTENT (%)						
16 AVERAGE MOISTURE CONTENT (%)						
17 OIL: CONSUMPTION (1,000 BARRELS)	2,922.00	3,010.00	475.70	381.00	1,479.70	
18 AVERAGE HEAT CONTENT (BTU/GAL)	153,290	145,428	150,683	144,965	146,893	
19 AVERAGE SULFUR CONTENT (%)	1.55	.36	1.30	.89	.93	
20 GAS: CONSUMPTION (1,000 MCF)				900.50		
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000		

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	4	8	4	4	1	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS			4	2		
26 - NO. WITH ELECTROSTATIC PRECIPITATORS						
27 - NO. WITH COMBINATION PRECIPITATORS 4/					I	
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00 12.00	7.00 15.00	15.00 20.00	16.00	12.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				90.00 92.60		
31 TESTED, LOW - HIGH			98.00			
32 ESTIMATED, LOW - HIGH			85.00	80.00		
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					95.00	
34 TESTED, LOW - HIGH					92.90	
35 EST., LOW - HIGH					95.00	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.49	.51	.01	.02	.01	
40 SULFUR DIOXIDE (1,000 TONS)	15.69	3.03		1.15	4.62	
41 NITROGEN OXIDES (1,000 TONS)	6.44	6.64	1.05	1.02	3.27	
42 STACKS: - TOTAL NO.	4	8	4	2	1	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	148.00 116.00	138.00	100.00	99.00 225.00	370.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				3.50	.09	
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	.20	.20			9.63	
46 SOLD (1,000 TONS) 11/					1.12	
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			54.25			
51 ELECTROSTATIC PRECIPITATORS ($1,000)						
52 COMBINATION PRECIPITATORS ($1,000) 4/					344.00	
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	394.26	316.71	117.00		344.00	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	4.00	11.00	3.00		7.76	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	4.00	11.00	3.00	12.00	58.32	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PACIFIC	O PACIFIC OCEAN	W	R CONNECTICUT	R CONNECTICUT	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	663.00	625.00	36.00	40.70	205.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	663.00	625.00	36.00	40.30	205.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.70	5.38	.31	.35 .40	1.76	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL OEC	JUL OCT	AUG DEC		AUG DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 80.00	82.00 76.00	73.00 73.00	85.00 32.00	76.00 36.00	
67 AT OUTFALL, SUMMER - WINTER	93.00 91.00	98.00 94.00	90.00 92.00	105.00 52.00	91.00 61.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			43.00	1,600.00	9,884.00	
69 - WINTER			43.00	60,000.00	15,492.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.86		.50	.02	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.41		142.39	.01	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP				6.20 24.80	1.25	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				.14 .56	3.25	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	OT	ST	ST		ST	
78 RECEIVING WATER BODY	O PACIFIC OCEAN	O PACIFIC OCEAN				
79 POND DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING	10.00 7.50	11.00			4.00	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.00 5,000.00	1.00			25.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	.20	4.60				

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)		2 22.50		3 25.00	1 136.00	
84 ONCE THROUGH COOLING (SALINE)	4 339.05	6 372.00	4 36.50			
85 COOLING POND(S)						
86 COOLING TOWER(S)				1 5.00		
87 COMBINATIONS 21/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963 1972	1938 1968	1948 1966	1934 1955	1960	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	10.00	9.40 13.00	15.00 19.00	15.00 20.00	13.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	640.00	849.00	81.00	64.90	204.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	646.00	863.00	81.00	51.10	204.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	3,861.85	3,396.13	331.00	75.00	57.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)				30.00		

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	39.00	70.00	3.00	13.00	33.94	
96 COST OF CHEMICAL ADDITIVES ($1,000)				.50	.63	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	31.00	2.50	37.00	7.69	
98 COST OF CHEMICAL ADDITIVES ($1,000)	4.00	4.00	2.10	21.00	3.49	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	HOLYOKE WATER POWER CO.	INDIANA STATEWIDE REC	CITY OF HOUMA	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.		1
4	NAME OF PLANT	RIVERSIDE	PATTS	HOUMA	DEEPWATER	GREEN BAYOU		4
5	UTILITY-PLANT CODE	214600-0600	216630-0100	218000-0100	218500-0100	216500-0400		5
6	STATE	MASSACHUSETTS	INDIANA	LOUISIANA	TEXAS	TEXAS		6
7	COUNTY	HAMPDEN	PIKE	TERREBONNE	HARRIS	HARRIS		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	042 01	077 05	106 08	216 12	216 12		8
9	PLANT CAPACITY (MW)	44.75	233.20	39.10	334.85	375.00		9
10	ANNUAL GENERATION (MWH)[3]	73,800	1,357,100	162,600	980,700	503,900		10
11	PLANT HEAT RATE (BTU/KWH)[3]	28,690	10,085	12,144	10,627	12,800		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		641.50					12
13	AVERAGE HEAT CONTENT (BTU/LB)		10,638					13
14	AVERAGE SULFUR CONTENT (%)		2.26					14
15	AVERAGE ASH CONTENT (%)		11.45					15
16	AVERAGE MOISTURE CONTENT (%)		13.79					16
17	OIL: CONSUMPTION (1,000 BARRELS)	347.00	11.90		1.86	1.36		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,285	137,160		147,650	147,626		18
19	AVERAGE SULFUR CONTENT (%)	.98	.20		1.87	1.40		19
20	GAS: CONSUMPTION (1,000 MCF)			1,246.00	15,605.90	6,138.18		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,000	1,031	1,049		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	2	2	6	4		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	1	2					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS[4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 20.00	18.00		12.00 15.00	7.00 8.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	94.00	88.00					30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	94.00	85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.03	9.73					39
40	SULFUR DIOXIDE (1,000 TONS)	1.13	26.93		.01	.01		40
41	NITROGEN OXIDES (1,000 TONS)	.77	5.80	.24	3.09	1.20		41
42	STACKS: - TOTAL NO.	5	2	2	4	8		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	65.00 97.00	300.00	62.00 64.00	166.00 339.00	95.00 119.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.04	64.40					45
46	SOLD (1,000 TONS)[11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		146.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000)[4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)		316.00	20.00				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	.30	25.00					55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	17.64	25.00					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P CONNECTICUT	P WHITE	M	D HOUSTON CHANL	M		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	85.00	260.70		335.56	2.55		62
63	AVERAGE RATE OF DISCHARGE (CFS)	85.00	259.70		334.00	1.39		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.73	2.24 1.00		1.50	1.16		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	JUL JAN		AUG	AUG		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 36.00	87.00 44.00		88.00			66
67	AT OUTFALL, SUMMER - WINTER	96.00 52.00	103.00 66.00		105.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,684.00	347.00					68
69	- WINTER	15,492.00	173.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.85	.15		1.60	3.00 2.00		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	77.00	.04 .01		28.50	51.39		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	7.00						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.50 5.00	1.00		2.00	3.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES	YES YES		YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	ST PS		ST	ST		77
78	RECEIVING WATER BODY	P CONNECTICUT	D DRAIN FIELD		D HOUSTON CHANL	D GREENS BAYOU		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		9.20 9.20					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		889.11					81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 44.75	2 233.20					83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)			2 39.10	1 12.00	4 375.00		86
87	COMBINATION[21]				6 322.85			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922 1948	1969	1968 1972	1924 1955	1949 1953		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00	14.70		9.20 19.50	15.40 16.25		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90.00	318.00		771.10	622.40		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90.00	318.00		787.00			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.20	14.00					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.21			.12	1.08		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	7.50					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	19.00	15.00		16.71	8.64		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	
4	NAME OF PLANT	CLARKE	ROBINSON	BERTRON	WHARTON	MARISH	
5	UTILITY-PLANT CODE	218500-0500	218500-0600	218500-0700	218500-0800	218500-0900	
6	STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
7	COUNTY	HARRIS	GALVESTON	HARRIS	HARRIS	FORT BEND	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	216 12	216 12	216 12	216 12	216 12	
9	PLANT CAPACITY (MW)	210.00	1,549.50	826.30	322.80	1,255.40	
10	ANNUAL GENERATION (MWH) 3/	173,600	8,882,400	4,636,800	1,631,800	6,683,000	
11	PLANT HEAT RATE (BTU/KWH) 3/	13,875	9,654	10,302	10,369	9,925	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)	1.63		15.80	4.65	4.59	
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,646		147,598	147,607	147,603	
19	AVERAGE SULFUR CONTENT (%)	1.75		1.74	2.12	1.59	
20	GAS: CONSUMPTION (1,000 MCF)	2,288.75	83,082.61	46,476.72	16,454.03	63,651.06	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,048	1,032	1,030	1,026	1,042	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	4	4	2	4	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS 4/						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00 12.90	8.00 24.20	22.70 26.20	18.00	18.50 18.90	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)						
40	SULFUR DIOXIDE (1,000 TONS)	.01		.09	.03	.02	
41	NITROGEN OXIDES (1,000 TONS)	.45	16.20	9.05	3.22	12.42	
42	STACKS: - TOTAL NO.	6	6	8	4	7	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	98.80 125.00	197.00 284.00	166.50 177.50	140.00 177.50	167.70 182.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/						
46	SOLD (1,000 TONS) 11/						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF SO2 COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF SO2 SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000) 4/						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)						
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	B DICKINSON	J HOUSTON CHANL	W	C ORY	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1.87	1,455.40	1,090.40	7.51	24.30	
63	AVERAGE RATE OF DISCHARGE (CFS)	.51	1,442.30	1,083.50	3.21	7.70	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.36	13.10	6.90	4.30	14.70	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG	AUG	AUG	AUG	AUG	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		93.00	90.00			
67	AT OUTFALL, SUMMER - WINTER		103.00	105.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	8.48			4.56	2.09	
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40		.30 4.50	.13	.12	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.30	1,593.30	235.06	16.66	139.25	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.00	564.00	106.00	9.00	120.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST	ST	ST	
78	RECEIVING WATER BODY	O SIMS BAYOU	B GALVESTON	J HOUSTON CHANL	U GREENS BAYOU	L SMITHERS	
79	POND DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING				8.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				70.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)						
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)						
86	COOLING TOWER(S)	4 210.00			2 322.80		
87	COMBINATION 20/		3 1,549.50	4 826.30		4 1,255.40	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1943 1951	1966 1968	1956 1960	1958 1960	1958 1968	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00 16.60	17.38 18.03	14.21 15.05	17.73 18.10	14.10 16.50	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	450.00	1,736.00	1,144.00	363.00	1,660.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,736.00	1,144.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.12	44.05	9.13	6.19	8.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.76	93.22	29.97	2.18	11.77	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	1
2							2
3							3
4	NAME OF PLANT	WEBSTER	CEDAR BAYOU	HAVANA	HENNEPIN	VERMILION	4
5	UTILITY-PLANT CODE	218500-1000	218500-1100	222500-0200	222500-0300	222500-0600	5
6	STATE	TEXAS	TEXAS	ILLINOIS	ILLINOIS	ILLINOIS	6
7	COUNTY	HARRIS	CHAMBERS	MASON	PUTNAM	VERMILION	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	216 12	216 12	065 07	071 07	066 05	8
9	PLANT CAPACITY (MW)	614.00	1,530.00	230.00	306.25	182.30	9
10	ANNUAL GENERATION (MWH) 3/	2,707,400	7,930,000	659,500	1,484,100	981,900	10
11	PLANT HEAT RATE (BTU/KWH) 3/	10,225	9,701	12,660	16,170	10,727	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)			121.10	564.90	491.50	12
13	AVERAGE HEAT CONTENT (BTU/LB)			10,101	16,694	10,779	13
14	AVERAGE SULFUR CONTENT (%)			2.92	2.85	2.88	14
15	AVERAGE ASH CONTENT (%)			9.36	9.68	11.21	15
16	AVERAGE MOISTURE CONTENT (%)			19.38	14.99	14.05	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1.91		926.16		.23	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,614		151,658		140,600	18
19	AVERAGE SULFUR CONTENT (%)	1.62		.63		.10	19
20	GAS: CONSUMPTION (1,000 MCF)	26,812.84	74,011.01		2,097.40		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,033	1,035		1,040		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	5	8	2	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			6	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/				1		27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00 15.70	8.00 20.50	25.00	25.00 31.00	24.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			15.00	83.80 85.00	86.00 87.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			15.00	83.80	86.00 67.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				99.00		33
34	TESTED, LOW - HIGH				99.16		34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			8.38	2.26	6.27	39
40	SULFUR DIOXIDE (1,000 TONS)	.01		9.00	31.00	27.94	40
41	NITROGEN OXIDES (1,000 TONS)	5.23	14.44	3.13	5.65	4.42	41
42	STACKS: - TOTAL NO.	6	3	3	1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	119.80 192.00	215.25 215.50	225.00	275.00	275.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/			3.10	50.70	48.90	45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				219.00	121.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				2,690.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)			287.00	307.00	235.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			6.20	40.50	45.40	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			6.20	40.50	45.40	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	C CLEAR	O CEDAR BAYOU	R ILLINOIS	R ILLINOIS	O RESERVOIR	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	530.10	1,229.50	568.00	277.00	3.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	526.00	1,217.70	568.00	277.00		63
64	AVG. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.10	11.80	4.88	2.38	3.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG	AUG	JUL DEC	JUL DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00	89.00	87.00 41.00	85.00 41.00		66
67	AT OUTFALL, SUMMER - WINTER	104.00	92.00	94.00 50.00	98.00 54.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			9,894.00	17,900.00		68
69	- WINTER			13,428.00	12,700.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C 16/		C				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.70	.60	6.60	.96	1.79	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	22.17	725.22	88.15	95.62	132.40	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					272.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					.50	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	248.00	388.00	50.00	40.00	22.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/		ST OT	JT	ST	ST	77
78	RECEIVING WATER BODY		L CLEAR	O CEDAR BAYOU	R ILLINOIS		78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING			10.00 9.50	10.00 9.50	9.50 9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			70.00 400.00	5.00 400.00	20.00 1,000.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			539.00	216.00	120.00	81
82	- ASH SETTLING			29,000.00	9,350.00	15,500.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)			5 260.00	2 306.25		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)		2 1,530.00				85
86	COOLING TOWER(S)					2 182.30	86
87	COMBINATION 21/	3 614.00					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1965	1972	1947 1950	1953 1959	1955 1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	16.02 16.25	20.00	7.50	12.00 16.00	14.00 15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	869.00	1,504.30	715.00	356.10	267.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	869.00	1,504.30	650.00	356.10		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			2,695.00	2,054.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					2,693.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)			14.90	7.10	20.80	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	17.66	30.28	5.30	4.20	2.30	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			31.00	12.30	23.90	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	12.18	54.20	12.30	10.90	37.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	ILLINOIS POWER CO.	ILLINOIS POWER CO.	IMPERIAL IRRIGATION DIST.	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA & MICHIGAN ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	WOOD RIVER	BALDWIN	EL CENTRO	BREED	TANNERS CREEK	4
5	UTILITY-PLANT CODE	222500-0700	222500-0800	223000-0700	225000-0200	225000-0700	5
6	STATE	ILLINOIS	ILLINOIS	CALIFORNIA	INDIANA	INDIANA	6
7	COUNTY	MADISON	RANDOLPH	IMPERIAL	SULLIVAN	DEARBORN	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	070 07	070 07	033 18	084 05	079 05	8
9	PLANT CAPACITY (MW)	650.10	623.00	189.10	495.60	1,100.30	9
10	ANNUAL GENERATION (MWH)[3]	3,029,500	3,796,500	527,200	666,300	5,973,600	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,097	9,669	11,356	9,612	9,379	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,278.10	1,842.00		293.20	2,529.30		12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,915	9,960		10,879	11,048		13
14	AVERAGE SULFUR CONTENT (%)	2.96	4.11		3.62	3.74		14
15	AVERAGE ASH CONTENT (%)	10.84	18.52		11.02	13.52		15
16	AVERAGE MOISTURE CONTENT (%)	12.02	10.87		13.76	10.13		16
17	OIL: CONSUMPTION (1,000 BARRELS)	13.29	2.24	132.81	4.00	42.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	151,443	138,342	135,500		18
19	AVERAGE SULFUR CONTENT (%)	.10	.10	1.40	.10	.10		19
20	GAS: CONSUMPTION (1,000 MCF)	2,529.00		4,883.10				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,034		1,053				21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	1	4	1	4		22
23	- NO. OF WET BOTTOM		1		1	1		23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	5			1	3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1	1			1		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	1						27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00 25.00	16.00	12.00 15.00	20.00	20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	15.00 90.00				85.00 87.30		30
31	TESTED, LOW - HIGH					65.50 84.04		31
32	ESTIMATED, LOW - HIGH	15.00				62.00 75.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.67	99.00			90.00		33
34	TESTED, LOW - HIGH	99.10 99.30	98.60			75.00		34
35	EST., LOW - HIGH	99.00	97.00			72.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	85.00						36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.22	1.02	.02	3.16	45.43		39
40	SULFUR DIOXIDE (1,000 TONS)	75.15	148.02	.62	20.23	177.95		40
41	NITROGEN OXIDES (1,000 TONS)	12.03	50.66	1.25	6.07	42.95		41
42	STACKS: - TOTAL NO.	3	1	4	1	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00 350.00	605.00	99.00 107.00	550.00	273.00 550.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	129.30	339.50		26.63	276.33		45
46	SOLD (1,000 TONS)[11]	19.90	2.10			9.43		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	447.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,170.00	2,900.00			1,004.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	480.00						52
53	DESULFURIZATION SYSTEMS ($1,000)	6,800.00						53
54	STACKS ($1,000)	892.00	930.00	53.00		979.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	90.20	77.20		109.60			55
56	REVENUES FROM SALE OF ASH ($1,000)	13.50	.70		.05			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	90.20	77.20		109.60			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	13.50	.70		.10			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R KASKASKIA	O STORAGE BASINS	R WABASH	R OHIO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	771.30	27.90	2.16	288.84	1,541.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	771.30	27.90	.13	288.82	1,541.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.63		2.03	2.48 .02	13.25		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	AUG JAN	JUL FEB	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 44.00	89.00 43.00	90.00 57.00	90.00 46.00	84.00 59.00		66
67	AT OUTFALL, SUMMER - WINTER	104.00 66.00	91.00 45.00	119.00 101.00	90.00 54.00	99.00 74.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	83,190.00	1,385.00	.27	9,625.00	61,200.00		68
69	- WINTER	61,920.00	1,626.00	.12	33,950.00	128,500.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.41	.05	9.70 .13	.25	.13		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	720.00	157.00	.06	12.92	.14		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	24.90	90.00		15.00			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		42.50					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	250.00	30.00	27.74	8.00 .09	141.30		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	ST	ST	OT		77
78	RECEIVING WATER BODY	R MISSISSIPPI	O COOLING POND		R WABASH	R OHIO		78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 9.50	8.00		8.40	9.60		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	35.00 300.00				12.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	2,800.00						81
82	- ASH SETTLING	175,000.00	187,000.00		30,500.00	120,000.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 650.10			1 495.60	4 1,100.30		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS(S)		1 623.00					85
86	COOLING TOWER(S)			4 189.10				86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1964	1970	1949 1968	1960	1951 1964		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	6.00 23.00	14.00	15.00 21.00	12.20	6.00 13.60		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	912.00	720.00	277.50	669.90	1,589.70		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	912.00			720.00	1,649.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,900.00				1,737.00		92
93	COOLING PONDS ($1,000)		3,000.00					93
94	COOLING TOWERS ($1,000)			1,642.10				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.30	14.30	40.98	67.06			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	22.50	4.80	21.79	.80	10.60		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	35.30	58.90	23.58	17.39			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	96.70	92.20	8.32	7.39	12.10		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA-KENTUCKY ELECTRIC CORP.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	
4	NAME OF PLANT	TWIN BRANCH	CLIFTY CREEK	STOUT	PRITCHARD	PERRY	
5	UTILITY-PLANT CODE	225000-0800	225500-0100	226000-0100	226000-0200	226000-0300	
6	STATE	INDIANA	INDIANA	INDIANA	INDIANA	INDIANA	
7	COUNTY	ST. JOSEPH	JEFFERSON	MARION	MORGAN	MARION	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	082 04	083 05	080 05	080 05	080 05	
9	PLANT CAPACITY (MW)	394.00	1,304.00	383.04	393.64	59.13	
10	ANNUAL GENERATION (MWHR)[3]	1,171,200	9,529,600	1,217,100	1,193,100	79,700	
11	PLANT HEAT RATE (BTU/KWH)[3]	11,108	9,390	10,764	11,659		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	630.60	4,108.00	548.00	630.50	353.10	
13	AVERAGE HEAT CONTENT (BTU/LB)	10,865	10,066	11,569	11,031	10,955	
14	AVERAGE SULFUR CONTENT (%)	1.91	3.50	2.95	2.31	1.93	
15	AVERAGE ASH CONTENT (%)	11.93	12.20	7.77	10.21	11.00	
16	AVERAGE MOISTURE CONTENT (%)	12.97	12.20	12.30	13.72	13.35	
17	OIL: CONSUMPTION (1,000 BARRELS)	17.30		76.30	6.60		
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,531		137,000	140,000		
19	AVERAGE SULFUR CONTENT (%)	.10		.30	.10		
20	GAS: CONSUMPTION (1,000 MCF)					53.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,040	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	12	6	12	6	6	
23	- NO. OF WET BOTTOM	4	6	2	3		
24	- NO. WITH FLY ASH REINJECTION					2	
25	- NO. WITH MECHANICAL PRECIPITATORS	4		3	5	2	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				1	4	
27	- NO. WITH COMBINATION PRECIPITATORS[4]		6	1	1		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	17.50	15.00		13.00 33.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		78.50 90.20	75.00	92.50	
31	TESTED, LOW - HIGH			66.00	72.00 76.70		
32	ESTIMATED, LOW - HIGH			66.00 80.00	75.00	75.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		96.10		98.90	99.00 90.00 97.00	
34	TESTED, LOW - HIGH				99.00	99.50 96.40 99.00	
35	EST., LOW - HIGH		96.10		99.00	99.50 97.00 99.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	29.25	12.70	4.30	5.32	1.76	
40	SULFUR DIOXIDE (1,000 TONS)	25.74	281.81	21.05	28.67	13.50	
41	NITROGEN OXIDES (1,000 TONS)	9.24	61.62	5.47	6.51	3.14	
42	STACKS: - TOTAL NO.	4	3	12	3	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	269.00	682.00	134.00 250.00	250.00	272.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	42.90	493.00	37.20	64.10	37.50	
46	SOLD (1,000 TONS)[11]	15.90	14.00	5.50		19.80	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			180.00	223.30	48.90	
51	ELECTROSTATIC PRECIPITATORS ($1,000)				411.00	662.20	
52	COMBINATION PRECIPITATORS ($1,000)[4]		3,390.00	415.50	513.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)		2,006.00	318.00	249.50	107.96	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		815.00	44.60	34.70	171.90	
56	REVENUES FROM SALE OF ASH ($1,000)		5.00			22.10	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		855.00	44.60	34.70	171.90	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		5.00			22.10	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. JOSEPH	R OHIO	R WHITE	R WHITE	R WHITE	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	353.00	2.13	234.00	273.00	10.40	
63	AVERAGE RATE OF DISCHARGE (CFS)	353.00	2.13	234.00	273.00	10.40	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.04 .02					
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	JUN JAN	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 37.00	75.00 47.00	94.80 46.00	86.70 46.50	78.60 41.60	
67	AT OUTFALL, SUMMER - WINTER	90.00 50.00	86.90 58.50			94.80 56.60	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10		10.40	2.14	0.20	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01		.40		320.10	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	25.00		65.00	33.25	683.74	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.00	210.00	160.00 5.00	139.34	8.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	OT	ST	ST	PS	
78	RECEIVING WATER BODY		OHIO				
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	8.10	7.55			10.50	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	15.00	100.00			1.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					2.50	
82	- ASH SETTLING		505.59				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 394.00	6 1,303.56		1 113.64		
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATIONS[21]			6 375.76	5 280.00	4 47.50	
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1925 1949	1955 1956	1931 1961	1949 1956	1938	
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	9.70 12.60	12.00	19.00 19.50	19.00 19.50		
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	594.80	2,032.20	501.00	481.40	133.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,054.00	2,032.20	501.00	481.40	89.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		3,504.00	2,309.70	1,806.10	646.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)			889.40	323.20		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		272.00	31.10	46.00	14.60	
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.40	23.00	14.60	5.60	1.20	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		26.00	69.50	118.00	111.90	
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.20	6.00	10.60	4.60	32.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	INDIANAPOLIS POWER & LIGHT CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	1
2							2
3							3
4	NAME OF PLANT	PETERSBURG	DUBUQUE	FOX LAKE	LANSING	KARR	4
5	UTILITY-PLANT CODE	226000-0500	227000-0300	227000-0400	227000-0700	227000-0800	5
6	STATE	INDIANA	IOWA	MINNESOTA	IOWA	IOWA	6
7	COUNTY	PIKE	DUBUQUE	MARTIN	ALLAMAKEE	CLINTON	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	077 05	068 07	128 07	088 07	069 07	8
9	PLANT CAPACITY (MW)	724.44	91.25	104.60	64.00	237.20	9
10	ANNUAL GENERATION (MWH) 3/	4,369,000	352,100	407,200	265,600	1,242,300	10
11	PLANT HEAT RATE (BTU/KWH) 3/	9,525	13,820	11,271	13,050	10,461	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,920.00	121.00		154.00	575.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,947	11,265		11,222	10,981	13
14	AVERAGE SULFUR CONTENT (%)	3.03	3.08		2.98	3.14	14
15	AVERAGE ASH CONTENT (%)	10.23	10.82		10.47	11.00	15
16	AVERAGE MOISTURE CONTENT (%)	13.23	10.64		11.37	11.80	16
17	OIL: CONSUMPTION (1,000 BARRELS)	21.60	2.00	417.00	1.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	151,429	140,000		18
19	AVERAGE SULFUR CONTENT (%)	.10	.40	2.74	.40		19
20	GAS: CONSUMPTION (1,000 MCF)		2,118.00	1,935.00		372.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,001	1,002		1,000	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	5	3	3	2	22
23	- NO. OF WET BOTTOM		2	2	3	2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS		2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1				1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	1					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		25.00	20.00 28.00	25.00	18.00 25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		77.00 87.00				30
31	TESTED, LOW - HIGH		64.00 75.50				31
32	ESTIMATED, LOW - HIGH		60.00 74.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	97.00				98.00	33
34	TESTED, LOW - HIGH	90.00 97.00				99.10	34
35	EST., LOW - HIGH	90.00 97.00				98.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	12.83	4.25	.07	10.51	3.77	39
40	SULFUR DIOXIDE (1,000 TONS)	114.40	7.59	3.92	9.06	34.94	40
41	NITROGEN OXIDES (1,000 TONS)	17.33	1.78	1.30	2.31	8.70	41
42	STACKS: - TOTAL NO.	1	5	2	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	550.00	106.00 128.00	142.00	151.00	175.00 245.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	193.60	8.90		2.60	50.50	45
46	SOLD (1,000 TONS) 11/					.90	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		196.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	836.00				365.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/	718.10					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	772.00	47.00	92.28	17.20	239.40	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	218.20	14.30	.20	4.00	114.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	.50					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	218.20	14.30	.20	4.00	114.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.50					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	D WHITE	D MISSISSIPPI	L FOX	D MISSISSIPPI	D MISSISSIPPI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	497.00	60.80	75.70	66.00	156.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	497.00	60.80	75.70	66.00	156.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.27	.52	.65	.57	1.34	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 44.00	84.00 46.00	76.00 38.00	75.00 36.00	76.00 37.00	66
67	AT OUTFALL, SUMMER - WINTER	108.00 70.00	104.00 76.00	93.00 58.00	84.00 44.00	89.00 78.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		52,000.00		44,900.00	58,000.00	68
69	- WINTER		30,000.00		22,700.00	34,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	.14	1.26	.35	.19	.05	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.27	12.62	17.24	7.02	21.24	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	209.00		6.33			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			.56			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	65.00 2.25	1.50	1.35 .13	.63	30.01	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 18/	ST	PS	ST	ST	RS	77
78	RECEIVING WATER BODY	D WHITE					78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	9.60	9.40 8.00	9.50 7.00	9.50 7.60	9.50 8.30	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	720.00	810.00	895.00	800.90	3,100.00	81
82	- ASH SETTLING		4,104.00	780.00	10,600.00	2,957.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 724.44	4 91.25	3 104.60	3 64.00	2 237.20	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION 21/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM		1926 1959	1950 1962	1948 1957	1947 1967	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	23.50 25.00	9.30 16.30	12.80 17.40	11.50 16.30	10.40 21.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	633.70	220.00	147.00	134.00	263.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	633.70	220.00	147.00	134.00	263.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,256.00	266.00	353.00	557.00	822.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.50	10.90	13.60	11.90	28.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.80	.40	.30	.20	5.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.50	15.80	9.60	8.50	23.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	22.20	7.50	8.60	2.90	8.40	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	
NAME OF PLANT	BOONE	SIXTH STREET	PRAIRIE CREEK #4	PRAIRIE CREEK #1-3	SUTHERLAND	
UTILITY-PLANT CODE	228500-0600	228500-0800	228500-2100	226500-2200	226500-2600	
STATE	IOWA	IOWA	IOWA	IOWA	IOWA	
COUNTY	BOONE	LINN	LINN	LINN	MARSHALL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	092 07	088 07	088 07	088 07	092 07	
PLANT CAPACITY (MW)	34.20	92.20	148.70	96.00	156.60	
ANNUAL GENERATION (MWH)[3]	135,600	253,800	708,600	440,200	1,008,500	
PLANT HEAT RATE (BTU/KWH)[3]	13,869	24,157	12,248	10,293	11,567	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	18.80	260.30	320.60	176.40	199.00	
AVERAGE HEAT CONTENT (BTU/LB)	9,264	10,233	10,470	10,456	10,124	
AVERAGE SULFUR CONTENT I&I	4.33	2.26	2.46	2.55	2.86	
AVERAGE ASH CONTENT (%)	23.04	7.64	8.21	8.66	11.65	
AVERAGE MOISTURE CONTENT (%)	12.15	20.12	16.94	16.94	16.11	
OIL: CONSUMPTION (1,000 BARRELS)		6.30	4.53	1.80		
AVERAGE HEAT CONTENT (BTU/GAL)		148,535	136,500	136,500		
AVERAGE SULFUR CONTENT I%)		1.51	.26	.26		
GAS: CONSUMPTION (1,000 MCF)	1,542.60	728.30	529.61	1,726.76	7,523.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,002	1,038	1,038	1,039	1,002	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	10	1	3	3	
- NO. OF WET BOTTOM		10	1	1	1	
- NO. WITH FLY ASH REINJECTION				2	1	
- NO. WITH MECHANICAL PRECIPITATORS	2	8	1	3	3	
- NO. WITH ELECTROSTATIC PRECIPITATORS		6				
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	22.00 24.00	20.00 25.00	20.00	22.00 25.00	20.00 22.00	
TESTED, LOW - HIGH	80.00	47.00 78.00	80.00	85.00	80.00	
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	80.00	47.00 78.00	80.00	80.00	80.00	
TESTED, LOW - HIGH		98.00				
EST., LOW - HIGH				99.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		98.00		98.60		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.75	1.52	3.52	1.82	1.74	
SULFUR DIOXIDE (1,000 TONS)	1.58	11.56	15.91	8.72	11.08	
NITROGEN OXIDES (1,000 TONS)	.47	4.06	4.93	2.42	5.62	
STACKS: - TOTAL NO.	2	10	1	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	183.00	198.00	200.00	180.00	190.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	3.40	21.40	22.80	14.60	21.00	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	53.00	230.00	56.80	75.00	157.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		1,000.00				
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	27.00	76.00	120.90	104.00	62.00	
REVENUES FROM SALE OF ASH ($1,000)	6.40	94.60	36.70	24.00	21.80	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	6.40	94.60	36.70	24.00	21.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	O LOCAL RUNOFF	R CEDAR	R CEDAR	W	
AVERAGE RATE OF WITHDRAWAL (CFS)	.75	5.50	138.00	107.00	3.60	
AVERAGE RATE OF DISCHARGE (CFS)	.12	5.50	140.00	107.00	.60	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.63		1.19	.92	3.00	
PEAK LOAD MONTH : SUMMER - WINTER[8]			AUG	JAN	AUG	JAN		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			87.00	42.00	87.00	42.00		
AT OUTFALL, SUMMER - WINTER			108.00	72.00	101.00	72.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				3,059.00		3,059.00		
- WINTER				1,475.00		1,475.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH[9]								
CHEMICAL ADDITIVES: RHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	2.50	.19	.76	.25	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	35.10		53.90	35.92	.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.70	15.00	46.20	30.80	35.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[15]	YES	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD RS, ST, SW, OTH[16]	PS	RS	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE[17] RH, BOILER BLOWDOWN - ASH SETTLING	10.70	10.90 10.70	10.20	10.30	10.50	
SUSPENDED SOLIDS (RPM), BOILER BLOWDOWN - ASH SETTLING	7.50	28.00 80.00	15.00	7.50	7.50	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	16.00	4,450.00	17.00	28.00	14.00	
- ASH SETTLING		236.00	1,926.54	86.54		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)			1 148.70	3 96.00		
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		7 92.25				
COOLING TOWER(S)					3 156.60	
COMBINATION[21]	4 34.20					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1942 1953	1917 1950	1967	1950 1958	1955 1961	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 20.00	12.00 18.00	20.00	15.00 16.20	15.80 16.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	86.90	31.90	157.00	163.00	220.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			158.00	163.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			1,133.5	603.5		
COOLING PONDS ($1,000)		314.00				
COOLING TOWERS ($1,000)	376.00				1,250.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.00	45.00	12.00	4.00	18.40	
COST OF CHEMICAL ADDITIVES ($1,000)	7.60	2.20	7.00	4.00	47.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	128.30	12.00	10.00	15.80	
COST OF CHEMICAL ADDITIVES ($1,000)	7.90	7.00	6.10	4.10	12.40	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	
NAME OF PLANT	MOLINE	RIVERSIDE	BIG SIOUX	GEORGE NEAL	MAYNARD	
UTILITY-PLANT CODE	229000-0200	229000-0300	229500-0200	229500-0800	229500-1300	
STATE	ILLINOIS	IOWA	IOWA	IOWA	IOWA	
COUNTY	ROCK ISLAND	SCOTT	WOODBURY	WOODBURY	BLACKHAWK	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	069 07	069 07	086 10	086 10	088 07	
PLANT CAPACITY (MW)	99.14	221.65	40.00	496.25	100.00	
ANNUAL GENERATION (MWH) 3/	309,700	1,285,500	32,800	1,945,300	375,800	
PLANT HEAT RATE (BTU/KWH) 3/	13,784	11,763	21,249	9,832	12,235	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	5.70	500.50		688.98	82.90	
AVERAGE HEAT CONTENT (BTU/LB)	10,326	10,420		9,734	10,873	
AVERAGE SULFUR CONTENT (%)	1.81	2.59		.56	2.37	
AVERAGE ASH CONTENT (%)	7.99	8.70		13.63	10.71	
AVERAGE MOISTURE CONTENT (%)	18.88	16.80		12.52	12.46	
OIL: CONSUMPTION (1,000 BARRELS)	162.50		15.40		10.28	
AVERAGE HEAT CONTENT (BTU/GAL)	137,267		138,942		137,709	
AVERAGE SULFUR CONTENT (%)	.40		.50		.10	
GAS: CONSUMPTION (1,000 MCF)	3,290.10	6,210.00	615.86	5,746.19	2,740.24	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,038	1,038	986	989	1,008	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	9	9	4	2	5	
- NO. OF WET BOTTOM		4		1		
- NO. WITH FLY ASH REINJECTION					3	
- NO. WITH MECHANICAL PRECIPITATORS		3			5	
- NO. WITH ELECTROSTATIC PRECIPITATORS		1		2		
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	5.00 25.00	5.00	25.00	10.40 20.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			82.00 87.50	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		85.00			85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		99.20		99.00		
TESTED, LOW - HIGH						
EST., LOW - HIGH		99.20				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.32	11.59				
SULFUR DIOXIDE (1,000 TONS)	.42	25.90	.01			
NITROGEN OXIDES (1,000 TONS)	1.04	5.91	.15	10.93	1.26	
STACKS: - TOTAL NO.	5	7	1	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	120.00 165.00	144.00 346.00	300.00	250.00 300.00	225.00 250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	.20	20.60		93.90	8.70	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		168.90			95.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		1,531.00		4,051.00		
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	35.30	240.30	35.30	537.20	121.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	3.20	47.00		105.00	15.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	3.20	47.00		105.00	15.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R BIG SIOUX	R MISSOURI	R CEDAR	
AVERAGE RATE OF WITHDRAWAL (CFS)	95.30	334.20	34.50	425.40	147.00	
AVERAGE RATE OF DISCHARGE (CFS)	95.30	334.20	34.50	425.40	147.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.82	2.87	.30	3.06	1.26	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 35.00	86.00 48.00	78.00 37.00	73.00 37.00	75.00 39.00	
AT OUTFALL, SUMMER - WINTER	85.00 36.00	101.00 60.00	86.00 51.00	86.00 62.00	94.00 55.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	85,800.00	85,800.00	3,145.00	38,600.00	19,270.00	
- WINTER	34,800.00	34,800.00	213.00	21,600.00	1,730.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/				C		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.23	.27	.06	.11	.70	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.11	12.26	.09	45.00	23.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP				164.25		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		10.77		5.48		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.00	12.00			6.25	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST	PS	ST	PS	
RECEIVING WATER BODY						
POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING	8.90	8.90	11.00 7.50	9.80	10.50 6.70	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			25.00 25.00		10.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	234.00	415.00	149.00	28.26	11,898.22	
- ASH SETTLING	14.56	319.00	512.00		473.29	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 99.10	6 241.40	4 40.00	2 496.20	6 95.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1913 1954	1924 1961	1924 1948	1964 1972	1937 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00 23.00	11.50 18.50	12.00	18.00 22.00	10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	277.80	442.80	164.30	425.40	138.90	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	277.80	442.80	133.70	592.50	240.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	427.00	767.00	297.00	2,085.00	140.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00	25.00		14.30	1.30	
COST OF CHEMICAL ADDITIVES ($1,000)	.72	2.00			1.20	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	70.00	.40	28.20	29.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.35	16.00	3.30	24.00	15.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	IOWA POWER & LIGHT CO.	IOWA POWER & LIGHT CO.	IOWA SO. UTIL. CO.	IOWA SO. UTIL. CO.	JACKSONVILLE ELECTRIC LIGHT	1
2						PLT.	2
3						KENNEDY	3
4	NAME OF PLANT	COUNCIL BLUFFS	DES MOINES #2	BRIDGEPORT	BURLINGTON	234500-0100	4
5	UTILITY-PLANT CODE	230000-0100	230000-0200	230500-0100	230500-0200	FLORIDA	5
6	STATE	IOWA	IOWA	IOWA	IOWA	DUVAL	6
7	COUNTY	POTTAWATTAMIE	POLK	MONROE	DES MOINES		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	085 10	092 OT	092 OT	065 OT	049 03	8
9	PLANT CAPACITY (MW)	130.60	325.00	71.00	212.00	249.60	9
10	ANNUAL GENERATION (MWH) [3]	814,700	1,663,400	264,500	1,099,600	1,044,800	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,653	12,679	15,052	10,040	11,210	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	281.70	524.30	199.60	546.50			12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,400	9,395	9,950	10,136			13
14	AVERAGE SULFUR CONTENT (%)	1.05	4.01	3.73	2.00			14
15	AVERAGE ASH CONTENT (%)	7.71	15.07	13.72	8.23			15
16	AVERAGE MOISTURE CONTENT (%)	14.47	16.91	16.33	20.49			16
17	OIL: CONSUMPTION (1,000 BARRELS)		71.10		1.56	1,787.91		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		138,210		137,000	146,645		18
19	AVERAGE SULFUR CONTENT (%)		.40		.10	1.63		19
20	GAS: CONSUMPTION (1,000 MCF)	2,813.90	10,736.60					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,001	1,006					21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	6	3	1	6		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION			3				24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	5	3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				1			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00 23.00	7.00 23.00	56.00	20.00	12.00 15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	50.00 80.00	93.00				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	80.00	65.00 75.00	80.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				96.00			33
34	TESTED, LOW - HIGH				96.50			34
35	EST., LOW - HIGH				98.50			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	3.72	19.06	7.40	.57	.30		39
40	SULFUR DIOXIDE (1,000 TONS)	5.80	42.22	14.47	27.65	9.78		40
41	NITROGEN OXIDES (1,000 TONS)	3.06	6.97	1.56	4.92	3.94		41
42	STACKS: - TOTAL NO.	2	5	3	1	7		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	250.00 138.00	250.00	150.00	306.00	136.00 155.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	18.40	57.30	25.10	42.10	.04		45
46	SOLD (1,000 TONS) [11]		14.30	3.00		.04		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	187.00	416.00	45.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				367.60			51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	306.00	336.00	108.00	21.00	110.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	37.70	171.00	29.20	43.20	.60		55
56	REVENUES FROM SALE OF ASH ($1,000)			.20		11.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	37.70	171.00	29.20	43.20	.60		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			.20		11.00		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	R DES MOINES	R DES MOINES	R MISSISSIPPI	R ST. JOHN'S		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	165.00	335.00	1.06	163.87	331.70		62
63	AVERAGE RATE OF DISCHARGE (CFS)	150.00	335.00	.05	163.85	331.70		63
64	AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED [14]	1.42 15.00		1.01	1.41 .02	2.85		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC			AUG JAN			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 36.00	94.00 41.00		84.00 36.00	96.00 74.00		66
67	AT OUTFALL, SUMMER - WINTER	98.00 55.00	109.00 56.00		104.00 55.00	115.00 80.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	49,440.00	6,028.00		112,000.00	109,000.00		68
69	- WINTER	25,740.00	864.00		59,000.00	109,000.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.45	3.00	.05	.07			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.20	51.48	.10		144.60		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	30.00		174.45 5.85				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			47.13 .08				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.10	34.00	3.00	7.50	117.50		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	SW	ST	ST	ST	PS		77
78	RECEIVING WATER BODY	R MISSOURI		D ASH SETTL POND	R MISSISSIPPI			78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.50 8.70	10.50 9.10	10.40	7.80			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		3.00 .30	10.00	12.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	200.00	1,400.00					81
82	- ASH SETTLING		217,000.00	40,000.00	51,000.00			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 130.60			1 212.00			83
84	ONCE THROUGH COOLING (SALINE)					7 339.90		84
85	COOLING POND(S)							85
86	COOLING TOWER(S)			3 71.00				86
87	COMBINATION [21]		7 324.60					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1958	1925 1964	1953 1957	1967	1955 1961		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.70 17.40	12.00 18.00	17.50	22.00	15.00 18.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	173.40	656.00	124.00	180.00	326.60		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	180.50	656.00		180.00	345.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,311.00	825.00		1,153.00	410.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		1,209.00	1.32				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.70	70.00	62.00	25.10	2.10		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	10.00	4.00	14.40	1.50	1.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.60	37.00	23.00	6.90	9.10		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	10.00	18.00	6.00	1.00	7.50		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	JACKSONVILLE ELECTRIC LIGHT PLT.	JACKSONVILLE ELECTRIC LIGHT PLT.	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.	
NAME OF PLANT	NORTHSIDE	SOUTHSIDE	WERNER	SAYREVILLE	OYSTER CREEK NUC	
UTILITY-PLANT CODE	234500-0200	234500-0300	237000-0100	237000-0200	237000-0800	
STATE	FLORIDA	FLORIDA	NEW JERSEY	NEW JERSEY	NEW JERSEY	
COUNTY	DUVAL	DUVAL	MIDDLESEX	MIDDLESEX	OCEAN	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	049 03	049 03	043 02	043 02	150 02	
PLANT CAPACITY (MW)	595.00	356.60	116.20	346.80	550.00	
ANNUAL GENERATION (MWHI)[3]	1,953,500	1,758,300	499,300	2,017,800	4,355,800	
PLANT HEAT RATE (BTU/KWHI)[3]	9,657	10,714	12,298	11,091	10,202	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	3,551.46	2,756.87	1,012.00	3,381.00		
AVERAGE HEAT CONTENT (BTU/GAL)	147,441	146,851	144,409	144,822		
AVERAGE SULFUR CONTENT (%)	1.64	1.62	.30	.30		
GAS: CONSUMPTION (1,000 MCF)				1,785.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,016		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	5	4	6		
- NO. OF WET BOTTOM				4		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS				2		
- NO. WITH ELECTROSTATIC PRECIPITATORS			1	2		
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00 10.00	10.00	10.00 22.00	16.00 26.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				86.20		
TESTED, LOW - HIGH				88.40 89.30		
ESTIMATED, LOW - HIGH				87.00 86.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			85.00	90.00		
TESTED, LOW - HIGH			86.70	90.30 95.30		
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.60	.46	.07	.07		
SULFUR DIOXIDE (1,000 TONS)	19.54	14.98	1.02	3.40		
NITROGEN OXIDES (1,000 TONS)	7.83	6.08	2.23	7.80		
STACKS: - TOTAL NO.	2	6	4	5		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00 300.00	135.50 145.00	124.00 210.00	138.00 221.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.07	.15				
TOTAL ASH: COLLECTED (1,000 TONS)[10]	.03	.02				
SOLD (1,000 TONS)[11]	.03	.02				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				112.00		
ELECTROSTATIC PRECIPITATORS ($1,000)			212.00	604.00		
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	480.00	164.00	60.50	134.90		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.50	1.30				
REVENUES FROM SALE OF ASH ($1,000)	9.40	7.10				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1.50	1.30				
TOTAL BYPRODUCT SALES REVENUES ($1,000)	9.40	7.10				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. JOHNS	R ST. JOHNS	R RARITAN	R RARITAN	B BARNEGAT	
AVERAGE RATE OF WITHDRAWAL (CFS)	600.00	450.70	193.00	430.00	1,094.00	
AVERAGE RATE OF DISCHARGE (CFS)	600.00	450.70	193.00	430.00	1,094.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.16	3.68	1.00	3.70	9.41	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 63.00	88.00 69.00	76.70 47.00	80.60 44.90	85.00	
AT OUTFALL, SUMMER - WINTER	101.00 81.00	102.00 81.00	87.00 54.90	94.80 61.20	95.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	63,000.00	92,000.00				
- WINTER	63,000.00	92,000.00				
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]	H					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.50	1.60	6.20		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	281.95		9.51	95.50	66.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP			1.50			
ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.50		1.30			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	90.00	135.00	44.00		150.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	OT	SW/PS	ST	ST	OT	
RECEIVING WATER BODY	C SAN CARLOS				D OYSTER CR./BAY	
POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING				6.70		
SUSPENDED SOLIDS (MG/L), BOILER BLOWDOWN - ASH SETTLING				203.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING				149,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)	2 518.00	3 356.60	3 116.26	5 346.75	1 550.00	
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[5][21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966 1972	1950 1964	1930 1953	1930 1958	1969	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.50 18.00	7.00 10.50	13.60 16.20	19.87	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	632.00	551.70	343.10	509.70	1,002.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	632.00	544.80	348.26	510.60	2,765.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	4,719.00	797.00	625.90	1,366.00	8,118.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	103.00	88.30	33.20	64.90	54.00	
COST OF CHEMICAL ADDITIVES ($1,000)	7.60	9.40	6.90	14.20	17.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	42.00	102.50	34.90	62.70	5.80	
COST OF CHEMICAL ADDITIVES ($1,000)	40.30	5.30	3.30	26.70	4.30	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY BOARD OF PUBLIC UTILS.		1
2								2
3								3
4	NAME OF PLANT	GRAND AVE	HAWTHORNE	MONTROSE	NORTHEAST	KAW		4
5	UTILITY-PLANT CODE	241500-0100	241500-0200	241500-0300	241500-0400	242000-0100		5
6	STATE	MISSOURI	MISSOURI	MISSOURI	MISSOURI	KANSAS		6
7	COUNTY	JACKSON	JACKSON	HENRY	JACKSON	WYANDOTTE		7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	094 10	094 10	139 10	094 10	094 10		8
9	PLANT CAPACITY (MW)	126.75	908.09	563.10	133.00	161.28		9
10	ANNUAL GENERATION (MWH) 3/	157,600	3,571,300	3,345,700	118,600	652,300		10
11	PLANT HEAT RATE (BTU/KWH) 3/	29,818	10,850	10,584	20,891	12,037		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	135.00	1,144.00	1,849.00		64.44		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,169	10,631	9,555		11,603		13
14	AVERAGE SULFUR CONTENT (%)	3.49	1.77	5.33		3.90		14
15	AVERAGE ASH CONTENT (%)	12.53	9.13	23.40		15.20		15
16	AVERAGE MOISTURE CONTENT (%)	6.72	12.78	9.72		7.57		16
17	OIL: CONSUMPTION (1,000 BARRELS)	6.50		6.80	66.80			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,086		138,060	138,096			18
19	AVERAGE SULFUR CONTENT (%)	.60		.60	.60			19
20	GAS: CONSUMPTION (1,000 MCF)	1,450.00	15,479.00		2,198.00	6,207.20		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	949	948		951	1,024		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	4	5	3	6	3		22
23	- NO. OF WET BOTTOM					3		23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS		4			2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1	3		1		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	3						27
28	- NO. WITH DESULFURIZATION SYSTEMS		2					28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00 12.50	20.00	20.00	20.00	16.00 25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			85.00		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH		85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.40	99.00	95.00 99.50		97.00		33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH	99.00	99.00	95.00 99.50				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		99.00					36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH		99.00					38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.14	2.88	7.39		.25		39
40	SULFUR DIOXIDE (1,000 TONS)	9.27	35.88	192.04	.02	3.92		40
41	NITROGEN OXIDES (1,000 TONS)	1.51	13.31	16.66	.45	2.42		41
42	STACKS: - TOTAL NO.	3	3	2	5	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	114.00 240.00	200.00 600.00	450.00	150.00 159.00	204.50 208.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/		6.00					44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	16.00	110.00	416.00		9.78		45
46	SOLD (1,000 TONS) 11/			87.00				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		324.00			120.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,294.00	1,285.00		247.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/	961.20						52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	128.00	1,014.00	457.00	36.00	196.62		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	147.00	557.00	437.00		97.80		55
56	REVENUES FROM SALE OF ASH ($1,000)	1.00	2.00	96.00				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	148.00	685.00	457.00		97.80		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.00	2.00	96.00				60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	A MISSOURI	R MISSOURI	C DEEPWATER	R MISSOURI	- KAW		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	53.00	765.00	575.00	52.00	137.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	53.00	765.00	575.00	52.00	137.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.46	6.75		.45	1.18		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 35.00	78.00 34.00	94.00 55.00	85.00 35.00	85.00 40.00		66
67	AT OUTFALL, SUMMER - WINTER	102.00 54.00	96.00 54.00	113.00 85.00	102.00 54.00	100.00 55.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	61,000.00	61,000.00		61,000.00	12,500.00		68
69	- WINTER	55,000.00	55,000.00		55,000.00	1,450.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			2.05	2.00			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		860.42	432.75		21.00		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			22.50				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			28.65		52.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST	UT	PS	PS		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE 19/ PH, BOILER BLOWDOWN - ASH SETTLING					10.50 5.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					400.00 2,000.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					133.00		81
82	- ASH SETTLING					5,200.00		82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 126.70	5 908.09		6 103.00	3 161.28		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)			3 563.10				85
86	COOLING TOWER(S)							86
87	COMBINATION 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929 1949	1951 1969	1958 1964	1919 1940	1955 1962		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/			15.80		13.76 15.65		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)			765.00		273.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	501.00			443.00	273.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,063.00	5,155.00		959.00	932.00		92
93	COOLING PONDS ($1,000)			1,237.00				93
94	COOLING TOWERS ($1,000)							94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	22.00	19.00		66.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)					8.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	185.00	225.00	137.00	26.00	15.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)					2.32		98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS GAS & ELECTRIC CO.	KANSAS GAS & ELECTRIC CO.	KANSAS GAS & ELECTRIC CO.		1
2								2
3								3
4	NAME OF PLANT	QUINDARO #2	QUINDARO #3	EVANS	GILL	NEOSHO		4
5	UTILITY-PLANT CODE	242000-0200	242000-0300	242500-0100	242500-0200	242500-0300		5
6	STATE	KANSAS	KANSAS	KANSAS	KANSAS	KANSAS		6
7	COUNTY	WYANDOTTE	WYANDOTTE	SEDGWICK	SEDGWICK	LABETTE		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	094 10	094 10	099 11	099 11	098 11		8
9	PLANT CAPACITY (MW)	94.50	239.10	539.30	348.30	113.50		9
10	ANNUAL GENERATION (MWHI [3]	199,000	925,300	2,800,800	1,680,200	391,200		10
11	PLANT HEAT RATE (BTU/KWHI [3]	15,800	9,812	9,943	10,879	10,179		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	20.76	105.06			1.55		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,035	12,008			12,762		13
14	AVERAGE SULFUR CONTENT (%)	4.10	4.10			2.40		14
15	AVERAGE ASH CONTENT (%)	13.20	12.80			12.00		15
16	AVERAGE MOISTURE CONTENT (%)	6.90	6.60			6.50		16
17	OIL: CONSUMPTION (1,000 BARRELS)			30.02	24.80	24.87		17
18	AVERAGE HEAT CONTENT (BTU/GAL)			148,257	147,430	147,566		18
19	AVERAGE SULFUR CONTENT (%)			.80	.80	2.20		19
20	GAS: CONSUMPTION (1,000 MCF)	2,860.99	6,670.72	28,191.70	16,715.90	4,185.90		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	944	946	975	1,014	1,034		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	2	2	4	7		22
23	- NO. OF WET BOTTOM	6	1					23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	2						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2					26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 41.00	10.00 20.00	8.00	8.00 15.00	10.00 35.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00						30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	85.00						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		97.00 99.35					33
34	TESTED, LOW - HIGH		98.82					34
35	EST., LOW - HIGH		98.00 99.35					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.49	.05			.12		39
40	SULFUR DIOXIDE (1,000 TONS)	1.67	8.76	.01	.15	.18		40
41	NITROGEN OXIDES (1,000 TONS)	.87	3.50	5.51	3.58	.86		41
42	STACKS: - TOTAL NO.	5	2	3	5	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	155.00	350.00	198.00	144.00 150.00	155.00 202.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.82	13.96			.19		45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	100.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		595.00					51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	132.00	443.30	80.80	123.00	107.10		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	28.50	139.63			1.20		55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	28.50	139.63			1.20		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES: R, L, O, C, W, M & O EXPL. IN FOOTNOTES)	MISSOURI	MISSOURI	W	W	N NEOSHO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	68.00	223.00	7.51	6.13	1.46		62
63	AVERAGE RATE OF DISCHARGE (CFS)	19.00	223.00	2.19	.84	.24		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.58 49.00	1.92	5.32	5.28	1.22		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG OEC	AUG OEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 40.00	85.00 40.00					66
67	AT OUTFALL, SUMMER - WINTER	100.00 55.00	100.00 55.00		98.00 97.00	96.00 98.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	40,000.00	40,000.00		18.00	430.00		68
69	- WINTER	19,000.00	19,000.00		16.00	850.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	C						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) [1], COOLING WATER - BOILER MAKEUP			21.45 .15	15.68 4.00	8.03 2.10		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	123.50	76.50	.70	.25	.36		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					113.25 61.00		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			16.00	13.00	9.55 2.36		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	ST	ST	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.50 5.00	10.50 5.00					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	400.00 2,000.00	400.00 2,000.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	40.00	65.00					81
82	- ASH SETTLING	2,120.00	5,166.00					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 94.50	2 239.10					83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)					2 40.00		85
86	COOLING TOWER(S)			2 539.30	4 348.20	1 73.50		86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1952	1965 1970	1961 1967	1952 1954	1923 1954		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	14.00	13.48 14.25	22.24 25.32	14.50 17.40	11.00 16.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	262.00	340.00	469.20	493.30	250.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	296.00	340.00					91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	870.00	1,950.00					92
93	COOLING PONDS ($1,000)					812.00		93
94	COOLING TOWERS ($1,000)			2,154.40	2,544.50	253.60		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.00	66.00	68.40	83.30	17.10		95
96	COST OF CHEMICAL ADDITIVES ($1,000)			69.70	35.00	8.60		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	30.00	8.40	35.30	13.10		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	71.00	4.72	14.70	12.70	3.90		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	KANSAS GAS & ELECTRIC CO.	KENTUCKY POWER CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.		
4	NAME OF PLANT	RIPLEY	BIG SANDY	BROWN	GREEN RIVER	RINEVILLE		
5	UTILITY-PLANT CODE	242500-0400	245000-0100	245500-0200	245500-0300	245500-0500		
6	STATE	KANSAS	KENTUCKY	KENTUCKY	KENTUCKY	KENTUCKY		
7	COUNTY	SEDGWICK	LAWRENCE	MERCER	MUHLENBERG	BELL		
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	099 11	103 05	102 05	072 05	101 05		
9	PLANT CAPACITY (MW)	87.20	1,096.80	694.00	263.00	37.50		
10	ANNUAL GENERATION (MWH)[3]	556,300	6,719,800	2,795,800	1,309,600	119,000		
11	PLANT HEAT RATE (BTU/KWH)[3]	13,407	9,476	10,431	11,857	13,390		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		2,621.60	1,231.44	680.72	66.69		
13	AVERAGE HEAT CONTENT (BTU/LB)		11,841	11,824	11,446	11,701		
14	AVERAGE SULFUR CONTENT (%)		.98	2.45	3.08	1.66		
15	AVERAGE ASH CONTENT (%)		12.06	13.66	9.46	15.36		
16	AVERAGE MOISTURE CONTENT (%)		7.04	5.56	10.64	6.45		
17	OIL: CONSUMPTION (1,000 BARRELS)	14.03	310.60			1.16		
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,929	129,000			132,000		
19	AVERAGE SULFUR CONTENT (%)	1.70	.10			.02		
20	GAS: CONSUMPTION (1,000 MCF)	7,197.90						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,024						

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	2	3	5	1		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS			2	5	1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2	1				
27	- NO. WITH COMBINATION PRECIPITATORS[4]							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 12.00	20.00	20.00 25.00	25.00	25.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00	80.00 84.00	81.70		
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH			80.00	80.00	81.70		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		98.50	98.00				
34	TESTED, LOW - HIGH		96.80	90.56				
35	EST., LOW - HIGH		92.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		18.46	21.32	10.99	1.61		
40	SULFUR DIOXIDE (1,000 TONS)	.08	51.12	57.93	41.36	2.22		
41	NITROGEN OXIDES (1,000 TONS)	1.43	24.64	11.08	6.13	.61		
42	STACKS: - TOTAL NO.	3	1	3	3	1		
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	150.00	625.00	345.00 564.00	125.00 247.00	135.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		319.30	129.60	54.31	8.84		
46	SOLD (1,000 TONS)[11]							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			140.70	229.25	19.96		
51	ELECTROSTATIC PRECIPITATORS ($1,000)		3,094.00	727.00				
52	COMBINATION PRECIPITATORS ($1,000)[4]							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	98.80	2,521.00	1,065.50	141.11	11.85		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			5.00	64.70	6.62		
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			5.00	64.70	6.62		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R BIG SANDY	L HERRINGTON	R GREEN	R CUMBERLAND		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	4.60	32.60		250.00			
63	AVERAGE RATE OF DISCHARGE (CFS)	3.60	9.12		249.90			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.00	23.48		2.15 .10			
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC		JUL DEC	AUG DEC	AUG DEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		74.00 45.00		88.00 50.00			
67	AT OUTFALL, SUMMER - WINTER	93.00 102.00	82.00 62.00		110.00 69.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	60.00	16,353.00		2,374.00			
69	- WINTER	60.00	2,560.00		27,640.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	21.60 1.85	.10	.60	1.20	.03		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.45	210.00	55.80	13.50	3.00		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		21.00	4.73	32.54 1.71			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			6.91	64.60 3.40	.01		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.00	36.00 .23	1.43	2.00			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	OT	ST	OT	OT		
78	RECEIVING WATER BODY		R BIG SANDY		P GREEN	P CUMBERLAND		
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING				10.80 9.60	10.30 7.40		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		1.00		1.20 25.00	1.30		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				249.00	2.00		
82	- ASH SETTLING				8,900.00	3,161.60		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 263.00			
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)	3 87.20	2 1,096.80	3 696.00		1 37.50		
87	COMBINATION[21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1949	1963 1969	1957 1971	1949 1959	1951		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.40 14.00	21.60 26.30	15.00 20.00	20.00	16.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	216.40	905.90	714.10	406.90	7.91		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				406.90			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)				2,580.69			
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)	664.40	6,114.00	2,088.00		116.72		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	152.70	2.00	29.10	5.50			
96	COST OF CHEMICAL ADDITIVES ($1,000)	20.70	25.00	19.80	9.31	4.02		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.30	1.50	71.50	7.08			
98	COST OF CHEMICAL ADDITIVES ($1,000)	.30	39.00	2.60	18.28	5.98		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	KENTUCKY UTILITIES CO.	LAKE WORTH LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LANSING BOARD OF W.E.L. COMM.	1
4	NAME OF PLANT	TYRONE	LAKE WORTH	LAKE PARKER	PLANT #3	ECKERT	4
5	UTILITY-PLANT CODE	245500-0600	256500-0100	257500-0200	257500-0300	260500-0100	5
6	STATE	KENTUCKY	FLORIDA	FLORIDA	FLORIDA	MICHIGAN	6
7	COUNTY	WOODFORD	PALM BEACH	POLK	POLK	INGHAM	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	102 05	050 03	052 03	052 03	125 04	8
9	PLANT CAPACITY (MW)	135.00	74.08	120.00	100.00	386.00	9
10	ANNUAL GENERATION (MWH) 3/	195,900	200,800	432,200	454,200	1,524,600	10
11	PLANT HEAT RATE (BTU/KWH) 3/	13,172	13,162	12,524	10,589	11,526	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	97.75				714.82	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,585				12,292	13
14	AVERAGE SULFUR CONTENT (%)	.89				2.72	14
15	AVERAGE ASH CONTENT (%)	11.86				11.96	15
16	AVERAGE MOISTURE CONTENT (%)	9.29				5.16	16
17	OIL: CONSUMPTION (1,000 BARRELS)	53.77	14.32	436.50	709.70		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,753	148,450	150,164	150,100		18
19	AVERAGE SULFUR CONTENT (%)	.20	2.10	2.06	2.07		19
20	GAS: CONSUMPTION (1,000 MCF)		2,400.33	2,580.40	328.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,039	1,044	1,037		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	4	4	1	6	22
23	- NO. OF WET BOTTOM					6	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	5	3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					6	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00	10.00	10.00 15.00	6.00	16.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00 84.80	90.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	81.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					97.50	33
34	TESTED, LOW - HIGH					96.90 98.00	34
35	EST., LOW - HIGH					97.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.89		.07	.12	1.39	39
40	SULFUR DIOXIDE (1,000 TONS)	1.76	.10	3.05	5.00	37.63	40
41	NITROGEN OXIDES (1,000 TONS)	1.00	.51	1.49	1.63	10.72	41
42	STACKS: - TOTAL NO.	3	4	4	1	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	180.00	60.00 100.00	165.00	150.00	334.00 359.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	11.60				88.60	45
46	SOLD (1,000 TONS) 11/					7.05	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	55.00	45.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)					767.40	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	107.80	54.00	113.00	14.00	592.50	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.71				152.30	55
56	REVENUES FROM SALE OF ASH ($1,000)					14.80	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	2.71				227.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					14.80	60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	K KENTUCKY	M	L PARKER	L PARKER	S GRAND	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	77.00		390.00	176.00	212.90	62
63	AVERAGE RATE OF DISCHARGE (CFS)	77.00		390.00	176.00	212.60	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.66		3.35	1.51	.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC		AUG NOV	SEP NOV	AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 45.00		95.00 62.50	94.90 85.60	89.00 41.00	66
67	AT OUTFALL, SUMMER - WINTER	89.00 57.00		97.00 69.00	101.00 93.60	96.00 45.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			420.00	176.00	317.00	68
69	- WINTER			420.00	176.00	741.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.04	.35	.40	.17	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	12.20	1.25	.65		.16	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	16.00					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	30.00					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		6.00			32.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	SW	PS	ST	ST	PS	77
78	RECEIVING WATER BODY	K KENTUCKY					78
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING	10.00 7.80	9.50	10.70	10.70	11.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.00 5.00	300.00	5.00	10.00	30.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	30.00	470.00	83.42	10.00	1,796.40	81
82	- ASH SETTLING	2,300.00					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 135.00		4 120.00	1 115.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)		4 74.10				86
87	COMBINATION 21/					1 361.00	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1953	1961 1971	1950 1966	1970	1954 1970	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00 16.00	14.50 17.20	6.00 8.20	11.40	16.30 23.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	256.10	146.20	406.00	176.00	450.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	256.10		406.00	176.00	450.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			149.00	440.00	1,050.00	92
93	COOLING PONDS ($1,000)					1,100.00	93
94	COOLING TOWERS ($1,000)		895.00			1,015.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		36.50	47.00	3.50	56.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.30			3.70	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.80	.60	5.00	1.10	13.10	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	13.70	16.30	2.30	1.10	1.10	98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	LANSING BOARD OF W.E.L. COMM.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	1
2						2
3						3
4 NAME OF PLANT	OTTAWA	BARRETT	FAR ROCKAWAY	GLENWOOD	NORTHPORT	4
5 UTILITY-PLANT CODE	260500-0400	273000-0100	273000-0300	273000-0400	273000-0600	5
6 STATE	MICHIGAN	NEW YORK	NEW YORK	NEW YORK	NEW YORK	6
7 COUNTY	INGHAM	NASSAU	QUEENS	NASSAU	SUFFOLK	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	125 04	043 02	043 02	043 01	043 01	8
9 PLANT CAPACITY (MW)	81.50	375.00	113.64	380.27	1,161.27	9
10 ANNUAL GENERATION (MWH)[3]	133,900	2,169,100	574,200	1,428,500	5,412,900	10
11 PLANT HEAT RATE (BTU/KWH)[3]	15,088	10,094	10,650	12,278	9,642	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	82.30					12
13 AVERAGE HEAT CONTENT (BTU/LB)	12,290					13
14 AVERAGE SULFUR CONTENT (%)	2.70					14
15 AVERAGE ASH CONTENT (%)	12.34					15
16 AVERAGE MOISTURE CONTENT (%)	5.41					16
17 OIL: CONSUMPTION (1,000 BARRELS)		3,402.00	927.00	2,684.00	8,413.00	17
18 AVERAGE HEAT CONTENT (BTU/GAL)		145,609	143,478	145,724	148,432	18
19 AVERAGE SULFUR CONTENT (%)		.89	.45	.85	2.34	19
20 GAS: CONSUMPTION (1,000 MCF)		1,059.00	515.00	1,078.00		20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,029	1,029	1,029		21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	5	2	1	8	3	22
23 - NO. OF WET BOTTOM	5					23
24 - NO. WITH FLY ASH REINJECTION		1			3	24
25 - NO. WITH MECHANICAL PRECIPITATORS		1		2	2	25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	5			2	1	26
27 - NO. WITH COMBINATION PRECIPITATORS[4]		1	1	4		27
28 - NO. WITH DESULFURIZATION SYSTEMS						28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	25.00	12.00	12.00 15.00	6.00	29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					85.00	30
31 TESTED, LOW - HIGH						31
32 ESTIMATED, LOW - HIGH						32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.50	95.00			98.00	33
34 TESTED, LOW - HIGH					98.40	34
35 EST., LOW - HIGH	97.50					35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37 TESTED, LOW - HIGH						37
38 ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.16	.30	.16	.45	.17	39
40 SULFUR DIOXIDE (1,000 TONS)	4.35	10.26	1.56	8.10	67.74	40
41 NITROGEN OXIDES (1,000 TONS)	1.23	7.70	2.15	6.13	18.55	41
42 STACKS: - TOTAL NO.	1	2	1	8	3	42
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	293.00	250.00 350.00	265.50	260.00 265.00	600.00	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.20	.02	.03	1.10	44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	10.40	.04	.10	.02	.50	45
46 SOLD (1,000 TONS)[11]	2.60	.04	.01	.02	.50	46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		808.00		265.00	2,322.00	50
51 ELECTROSTATIC PRECIPITATORS ($1,000)	361.80				1,030.00	51
52 COMBINATION PRECIPITATORS ($1,000)[4]		838.00	629.00	1,322.00		52
53 DESULFURIZATION SYSTEMS ($1,000)						53
54 STACKS ($1,000)	174.30	405.00	125.00	301.00	3,721.00	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	17.60					55
56 REVENUES FROM SALE OF ASH ($1,000)	5.50	6.00	1.00	2.00		56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	23.00					59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.50	6.00	1.00	2.00	400.00	60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GRAND	O HOG IS CHANNEL	O MOTT BASIN	O LONG IS SOUND	O LONG IS SOUND	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	40.20	412.00	127.00	368.00	810.00	62
63 AVERAGE RATE OF DISCHARGE (CFS)	40.20	412.00	127.00	368.00	810.00	63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.35	3.54	1.09	3.10	6.97	64
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC					65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 41.00					66
67 AT OUTFALL, SUMMER - WINTER	99.00 51.00					67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	555.00					68
69 - WINTER	1,297.00					69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.27	.46	5.50	.35	71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.20	.01		4.00	.02	72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	24.00	136.50	24.00			75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	PS	ST	ST	77
78 RECEIVING WATER BODY				O HEMPSTEAD HBR		78
79 POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	11.00					79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00					80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	555.74					81
82 - ASH SETTLING						82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	5 81.50					83
84 ONCE THROUGH COOLING (SALINE)		2 375.00	1 113.64	4 350.00	3 1,125.00	84
85 COOLING POND(S)						85
86 COOLING TOWER(S)						86
87 COMBINATION[21]						87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1947	1956 1963	1952	1930 1954	1967 1972	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.30		20.00	15.00 16.50	22.00	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	150.30	434.00	127.00	590.00	988.50	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	174.00	434.00	127.00	228.00	988.50	91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	82.00	2,349.00	486.00	1,412.00	5,285.00	92
93 COOLING PONDS ($1,000)						93
94 COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.70	13.20		173.00	120.00	95
96 COST OF CHEMICAL ADDITIVES ($1,000)	2.80	3.30		15.50		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.40	13.00		35.00	77.00	97
98 COST OF CHEMICAL ADDITIVES ($1,000)	.30	.60		4.00	60.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	LONG ISLAND LIGHTING CO.	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	1
4 NAME OF PLANT	PORT JEFFERSON	HARBOR	HAYNES	SCATTERGOOD	VALLEY		4
5 UTILITY-PLANT CODE	27300-0700	27450-0700	27450-0800	27450-1200	27450-1600		5
6 STATE	NEW YORK	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA		6
7 COUNTY	SUFFOLK	LOS ANGELES	LOS ANGELES	LOS ANGELES	LOS ANGELES		7
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	043 D1	024 18	024 18	024 18	024 18		8
9 PLANT CAPACITY (MW)	467.00	388.90	1,606.00	326.40	545.60		9
10 ANNUAL GENERATION (MWH) 3/	2,647,300	990,900	8,450,400	1,015,928	2,235,800		10
11 PLANT HEAT RATE (BTU/KWH) 3/	10,375	12,748	9,536	9,965	11,608		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)							12
13 AVERAGE HEAT CONTENT (BTU/LB)							13
14 AVERAGE SULFUR CONTENT (%)							14
15 AVERAGE ASH CONTENT (%)							15
16 AVERAGE MOISTURE CONTENT (%)							16
17 OIL: CONSUMPTION (1,000 BARRELS)	4,405.00	519.00	5,743.00	532.00	778.00		17
18 AVERAGE HEAT CONTENT (BTU/GAL)	148,474	149,319	147,572	145,144	147,818		18
19 AVERAGE SULFUR CONTENT (%)	2.43	.37	.40	.40	.45		19
20 GAS: CONSUMPTION (1,000 MCF)		8,888.00	42,565.00	6,778.00	20,078.00		20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,055	1,057	1,019	1,052		21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	4	5	6	2	4		22
23 - NO. OF WET BOTTOM							23
24 - NO. WITH FLY ASH REINJECTION	2						24
25 - NO. WITH MECHANICAL PRECIPITATORS							25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS				2	4		26
27 - NO. WITH COMBINATION PRECIPITATORS 4/	4						27
28 - NO. WITH DESULFURIZATION SYSTEMS							28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00 26.00	6.67 10.00					29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					15.00		30
31 TESTED, LOW - HIGH				27.50	27.50		31
32 ESTIMATED, LOW - HIGH							32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					84.00 90.00		33
34 TESTED, LOW - HIGH							34
35 EST., LOW - HIGH							35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37 TESTED, LOW - HIGH							37
38 ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.74	.09	1.02	.06	.02		39
40 SULFUR DIOXIDE (1,000 TONS)	35.47	.70	8.15	.72	1.39		40
41 NITROGEN OXIDES (1,000 TONS)	9.71	2.88	20.80	2.49	5.65		41
42 STACKS: - TOTAL NO.	3	5	8	1	4		42
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	300.00 425.00	247.00	240.00	300.00	250.00		43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.40						44
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	.42		2.00				45
46 SOLD (1,000 TONS) 11/	.12				.01		46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51 ELECTROSTATIC PRECIPITATORS ($1,000)				155.00	434.00		51
52 COMBINATION PRECIPITATORS ($1,000) 4/	2,882.00						52
53 DESULFURIZATION SYSTEMS ($1,000)							53
54 STACKS ($1,000)	1,141.00	450.00	850.00	384.00	612.00		54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			9.00	1.60	1.00		55
56 REVENUES FROM SALE OF ASH ($1,000)							56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		205.00	9.00	1.60	1.00		59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	90.00						60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PORT JEFF HBR	O PACIFIC OCEAN	O PACIFIC OCEAN	O PACIFIC OCEAN	M		61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	600.00	449.00	1,513.00	174.00	.01		62
63 AVERAGE RATE OF DISCHARGE (CFS)	600.00	449.00	1,513.00	174.00			63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.16	3.86	13.01	1.50	.01		64
65 PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG DEC	JUL DEC	AUG DEC	AUG DEC		65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		68.00 62.40	74.00 64.00	74.00 63.00			66
67 AT OUTFALL, SUMMER - WINTER		92.30 85.50	90.00 78.00	93.00 78.00			67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		443.00	67.00	174.00			68
69 - WINTER		361.00	1,000.00	174.00			69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/							70
71 CHEMICAL ADDITIVES: RHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.45	.39	.18	.07	12.55 .60		71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.13		.09	.06	4.65		72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	82.00	47.50	64.00	18.20	20.00		75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES YES	YES	YES YES		76
77 SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 18/	ST	PS	ST	PS	PS		77
78 RECEIVING WATER BODY	O PORT JEFF HBR		O PACIFIC OCEAN				78
79 POND DISCHARGE 19/: RH, BOILER BLOWDOWN - ASH SETTLING	9.00						79
80 SUSRENDED SOLIDS (PRM), BOILER BLOWDOWN - ASH SETTLING	50.00						80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82 - ASH SETTLING	840.00						82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)							83
84 ONCE THROUGH COOLING (SALINE)	4 460.00	5 388.90	6 1,606.00	2 326.40			84
85 COOLING PONDS(S)							85
86 COOLING TOWER(S)							86
87 COMBINATION 21/					4 545.60		87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1960	1943 1949	1962 1967	1958 1959	1954 1956		88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00	18.90 20.20	17.40 19.40	17.80	13.25 20.70		89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	632.38	592.00	1,398.00	348.00	626.00		90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	632.38	616.00	1,570.00	348.00			91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	3,315.00	3,857.00	7,733.00	7,139.00			92
93 COOLING PONDS ($1,000)							93
94 COOLING TOWERS ($1,000)					7,124.00		94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.00	481.00	278.60	30.00	94.00		95
96 COST OF CHEMICAL ADDITIVES ($1,000)	8.00	4.77	5.40	1.80	26.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	109.00	72.00	63.20	12.00	74.00		97
98 COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.28	18.80	1.00	7.10		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	LOUISIANA POWER & LIGHT CO.			LOUISIANA POWER & LIGHT CO.			LOUISIANA POWER & LIGHT CO.			LOUISVILLE GAS & ELECTRIC CO.			LOUISVILLE GAS & ELECTRIC CO.			1
2		2																2
3		3																3
4	NAME OF PLANT	4	LITTLE GYPSY			NINE MILE			STERLINGTON			CANE RUN			PADDYS RUN			4
5	UTILITY-PLANT CODE	5	275000-0100			275000-0200			275000-0300			275000-0200			275000-0400			5
6	STATE	6	LOUISIANA			LOUISIANA			LOUISIANA			KENTUCKY			KENTUCKY			6
7	COUNTY	7	SAINT CHARLES			JEFFERSON			OUACHITA			JEFFERSON			JEFFERSON			7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	106	08		106	08		019	08		078	05		078	05		8
9	PLANT CAPACITY (MW)	9	1,250.78			1,134.34			351.53			1,017.00			337.50			9
10	ANNUAL GENERATION (MWH) 3/	10	6,806,300			7,947,000			1,842,500			4,974,500			508,600			10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	9,897			10,091			10,992			10,156			14,594			11
	AIR QUALITY CONTROL DATA																				
	FUEL CONSUMPTION DATA (ANNUAL)																				
12	COAL: CONSUMPTION (1,000 TONS)	12										1,930.90			205.30			12
13	AVERAGE HEAT CONTENT (BTU/LB)	13										11,255			11,477			13
14	AVERAGE SULFUR CONTENT (%)	14										3.39			3.20			14
15	AVERAGE ASH CONTENT (%)	15										12.74			12.10			15
16	AVERAGE MOISTURE CONTENT (%)	16										6.78			7.80			16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	75.25			50.60			13.80									17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,528			138,000			147,000									18
19	AVERAGE SULFUR CONTENT (%)	19	.10			.16			.80									19
20	GAS: CONSUMPTION (1,000 MCF)	20	63,497.00			66,736.00			20,068.00			7,286.40			2,645.70			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,054			1,052			1,004			1,025			1,025			21
	PLANT EQUIPMENT DATA																				
22	BOILERS: - TOTAL NO.	22	3			4			6			6			6			22
23	- NO. OF WET BOTTOM	23																23
24	- NO. WITH FLY ASH REINJECTION	24																24
25	- NO. WITH MECHANICAL PRECIPITATORS	25																25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26										6			6			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27																27
28	- NO. WITH DESULFURIZATION SYSTEMS	28																28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	6.00			8.00		15.00	8.00			21.00		25.00			25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30																30
31	TESTED, LOW - HIGH	31																31
32	ESTIMATED, LOW - HIGH	32																32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33										97.50		99.40	96.00		97.50	33
34	TESTED, LOW - HIGH	34										97.50		99.70	98.10		99.50	34
35	EST., LOW - HIGH	35										98.00		99.50	96.50		99.10	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36																36
37	TESTED, LOW - HIGH	37																37
38	ESTIMATED, LOW - HIGH	38																38
	PLANT OPERATING DATA AND COST OF EQUIPMENT																				
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	.01			.01			.04			2.34			.41			39
40	SULFUR DIOXIDE (1,000 TONS)	40										166.66			12.91			40
41	NITROGEN OXIDES (1,000 TONS)	41	12.55			13.11			3.95			18.80			2.41			41
42	STACKS: - TOTAL NO.	42	5			7			4			6			5			42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	161.50	182.00		170.00	185.50		125.00	250.00		257.00	516.00			235.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44																44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45										442.00			21.90			45
46	SOLD (1,000 TONS) 11/	46										39.50						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47																47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48																48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49																49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50																50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51										3,003.00			990.00			51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52																52
53	DESULFURIZATION SYSTEMS ($1,000)	53																53
54	STACKS ($1,000)	54	561.00			114.00			121.00			1,213.00			203.00			54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55										257.90			78.00			55
56	REVENUES FROM SALE OF ASH ($1,000)	56										48.00						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57																57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58																58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59										257.90			78.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60										48.00						60
	WATER QUALITY CONTROL DATA																				
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R	MISSISSIPPI		R	MISSISSIPPI		R	OUACHITA		R	OHIO		R	OHIO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		1,445.00			1,372.00			567.00			696.80			116.60		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		1,445.00			1,372.00			567.00			890.80			116.60		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	12.43	.05		11.80	.05		4.88			7.66			1.00			64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	AUG	NOV		AUG	NOV		AUG	NOV		JUL	DEC		JUL	DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	88.00	63.00		85.00	62.00		96.00	66.00		83.00	47.00		79.00	42.00		66
67	AT OUTFALL, SUMMER - WINTER	67	115.00	86.00		107.00	85.00		115.00	89.00		99.00	65.00		88.00	54.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		303,000.00			303,000.00			1,670.00			119,300.00			48,500.00		68
69	- WINTER	69		605,000.00			605,000.00			20,700.00			321,300.00			195,200.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/	70																70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		1.00			1.90			.23			1.80			1.08		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		571.95			273.79			3.25			.17			.15		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73																73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		70.12			49.36			5.28								74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75					.70		1.50	.55		204.00			61.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	76		YES		YES	YES			YES			YES					76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 18/	77	ST			ST			ST						UT			77
78	RECEIVING WATER BODY	78				R	MISSISSIPPI								R	OHIO		78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79										10.00	11.00		10.50	9.30		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80										10.00	102.00		10.00	87.30		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											110.00			226.00		81
82	- ASH SETTLING	82											355,000.00			65,662.00		82
	COOLING FACILITY DATA																				
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	3	1,250.78		4	1,134.34		4	351.53		6	1,016.69		6	337.50		83
84	ONCE THROUGH COOLING (SALINE)	84																84
85	COOLING POND(S)	85																85
86	COOLING TOWER(S)	86																86
87	COMBINATION 21/	87																87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1961	1969		1951	1971		1928	1958		1954	1969		1942	1952		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	19.00	25.00		16.00	20.60		13.00	17.00		13.00	16.00			10.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		1,445.00			1,323.00			544.00			1,253.70			632.80		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,445.00			1,376.00			566.00			1,252.70			632.80		91
	CAPITAL COSTS OF COOLING FACILITIES																				
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	4,989.00			2,256.00			1,176.00			8,094.00			3,260.00			92
93	COOLING PONDS ($1,000)	93																93
94	COOLING TOWERS ($1,000)	94																94
	ANNUAL COOLING WATER EXPENSES																				
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95										65.00			60.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96					.40			1.10		20.00			7.00			96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES																				
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97										137.70			45.00			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		79.20			51.00			4.00		64.10			8.00			98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	LOUISVILLE GAS & ELEC CO	LOWER COLORADO RIVER AUTH.	LOWER COLORADO RIVER AUTH.	LUBBOCK, CITY OF	LUBBOCK, CITY OF	
NAME OF PLANT	MILL CREEK	COMAL	GIDEON	HOLLY AVE	PLANT #2	
UTILITY-PLANT CODE	275500-0600	277000-0300	277000-0800	278000-0100	278000-0300	
STATE	KENTUCKY	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	JEFFERSON	COMAL	BASTROP	LUBBOCK	LUBBOCK	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	078 05	217 12	212 12	211 12	211 12	
PLANT CAPACITY (MW)	355.50	60.00	623.00	50.00	80.50	
ANNUAL GENERATION (MWH) [3]	545,900	331,800	1,936,700	203,600	280,100	
PLANT HEAT RATE (BTU/KWH) [3]	11,414	13,604	13,699	10,597	14,208	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	268.20					
AVERAGE HEAT CONTENT (BTU/LB)	11,100					
AVERAGE SULFUR CONTENT (%)	3.71					
AVERAGE ASH CONTENT (%)	13.93					
AVERAGE MOISTURE CONTENT (%)	8.60					
OIL: CONSUMPTION (1,000 BARRELS)		56.50	171.00			
AVERAGE HEAT CONTENT (BTU/GAL)		146,200	142,088			
AVERAGE SULFUR CONTENT (%)		2.00	.10			
GAS: CONSUMPTION (1,000 MCF)	270.20	4,022.00	24,962.00	2,129.90	3,920.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,025	1,036	1,022	1,016	1,015	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	4	3	1	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	21.00	18.00	8.00 10.00	10.00	7.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.40					
TESTED, LOW - HIGH						
EST., LOW - HIGH	99.40					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.19	.01	.03			
SULFUR DIOXIDE (1,000 TONS)	18.92	.35				
NITROGEN OXIDES (1,000 TONS)	2.47	.90	5.24	.42	.76	
STACKS: - TOTAL NO.	1	2	3	1	5	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	615.00	186.00	154.00 177.00	94.50	45.00 56.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	36.90					
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,486.00					
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	2,253.00	13.00	29.20			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	18.90					
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	18.90		.07			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, C, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R COMAL	R COLORADO	M	M	
AVERAGE RATE OF WITHDRAWAL (CFS)	250.00	191.00	7.04	.98	.87	
AVERAGE RATE OF DISCHARGE (CFS)	250.00	190.90		.25	.20	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.15	.01	7.04	.74	.67	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL NOV	AUG DEC	JUN DEC	JUN DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	50.00	78.00 75.50	92.00 62.00	67.00 56.00	67.00 56.00	
AT OUTFALL, SUMMER - WINTER	76.00	83.50 80.50	107.00 76.00	88.00 76.00	90.00 70.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	119,300.00	311.00	932.00	.97	.58	
- WINTER	321,300.00	321.00	844.00	.98	1.19	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	C					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	.20	.87	6.02 .02	11.11 .08	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.46	.01	.04	.21	
LIME (TONS), COOLING WATER - BOILER MAKEUP			17.28			
ALUM (TONS), COOLING WATER - BOILER MAKEUP			3.52			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	67.50 .02	26.14	20.00	.13		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	PS	OT	Sw	PS	
RECEIVING WATER BODY	P OHIO		L BASTROP	G IRRIG. POND		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.20	11.00				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	6.00	1.50				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	14,000.00	170.60				
- ASH SETTLING	30,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	1 355.50					
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)			3 565.00			
COOLING TOWER(S)				1 50.00	5 80.50	
COMBINATION [21]		2 60.00				
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1972	1956	1964	1965	1949 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	23.35	15.00	9.97 15.34	14.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	289.70	200.00	933.00	78.66	190.23	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	289.70	200.00				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,426.00					
COOLING PONDS ($1,000)		225.00	3,650.00			
COOLING TOWERS ($1,000)		328.00			275.14	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.00		34.70			
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	5.23	3.08	12.20	24.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	60.00		26.90			
COST OF CHEMICAL ADDITIVES ($1,000)	15.00	.22	14.52	2.10	4.20	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	MADISON GAS & ELECTRIC CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	
NAME OF PLANT	BLOUNT	CRAWFORD	EYLER	PORTLAND	TITUS		
UTILITY-PLANT CODE	283500-0100	303500-0100	303500-0200	303500-0300	303500-0400		
STATE	WISCONSIN	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
COUNTY	DANE	DAUPHIN	BERKS	NORTHAMPTON	BERKS		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	240 07	196 02	151 02	151 02	151 02		
PLANT CAPACITY (MW)	195.50	116.70	84.00	426.70	225.00		
ANNUAL GENERATION (MWH)[3]	880,300	197,300	76,500	2,529,000	1,583,000		
PLANT HEAT RATE (BTU/KWH)[3]	11,783	16,031	19,696	9,718	15,468		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	293.20	83.00		973.00	638.00		
AVERAGE HEAT CONTENT (BTU/LB)	11,658	13,099		12,447	12,403		
AVERAGE SULFUR CONTENT (%)	2.57	1.66		1.75	1.50		
AVERAGE ASH CONTENT (%)	9.65	10.52		11.62	11.40		
AVERAGE MOISTURE CONTENT (%)	9.98	5.27		6.74	6.71		
OIL: CONSUMPTION (1,000 BARRELS)	4.00	163.60	248.90	57.60	36.60		
AVERAGE HEAT CONTENT (BTU/GAL)	137,900	145,168	144,744	136,903	137,657		
AVERAGE SULFUR CONTENT (%)	.30	.68	.81	.26	.26		
GAS: CONSUMPTION (1,000 MCF)	4,426.50						
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,005						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	9	8	6	2	3		
- NO. OF WET BOTTOM	2						
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS	5						
- NO. WITH ELECTROSTATIC PRECIPITATORS		2	2		3		
- NO. WITH COMBINATION PRECIPITATORS[4]				2			
- NO. WITH DESULFURIZATION SYSTEMS				1			
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 25.00	15.00 26.00	4.00 20.00	22.00	23.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00						
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH	85.00						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		94.00	90.00	99.00	99.00		
TESTED, LOW - HIGH		85.90 93.50	76.80 98.40	98.20 98.60	96.70		
EST., LOW - HIGH		90.00		96.00	96.70		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				90.00			
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.01	.76	.31	1.92	2.04		
SULFUR OIOXIOE (1,000 TONS)	12.91	2.99	.67	35.43	18.74		
NITROGEN OXIOES (1,000 TONS)	3.26	1.11	.55	6.88	5.83		
STACKS: - TOTAL NO.	6	3	2	2	3		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	90.00 250.00	200.30	242.00	400.00	200.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	16.60	5.80		139.10	109.10		
SOLD (1,000 TONS)[11]	.90			51.60	17.90		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	381.00						
ELECTROSTATIC PRECIPITATORS ($1,000)		120.00	100.00		843.00		
COMBINATION PRECIPITATORS ($1,000)[4]				1,355.00			
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	277.00	64.00	62.00	480.00	226.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	65.00	19.00		272.00	92.00		
REVENUES FROM SALE OF ASH ($1,000)				27.70	6.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	65.00	19.00		272.00	92.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		.60		27.70	6.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MONONA	R SUSQUEHANNA	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL		
AVERAGE RATE OF WITHDRAWAL (CFS)	171.00	182.00	80.00	461.00	206.20		
AVERAGE RATE OF DISCHARGE (CFS)	170.00	182.00	80.00	461.30	206.10		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.47 1.00	1.57	.69	3.96	1.77 .10		
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	AUG DEC	AUG DEC	AUG DEC	AUG DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.50 46.50	83.00 45.00	72.30 42.00	79.00 39.00	77.00 42.00		
AT OUTFALL, SUMMER - WINTER	102.80 68.50	93.00 64.00	94.00 74.00	90.00 60.00	101.00 66.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	174.40	11,000.00	952.00	3,012.00	840.00		
- WINTER	160.40	96,700.30	4,432.30	15,608.00	4,192.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	1.30	2.04	.13		.50		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.40	.50		116.29			
LIME (TONS), COOLING WATER - BOILER MAKEUP	19.80						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	2.70	6.96	1.85	4.50	65.51 .49		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		23.75 1.25	2.25	20.00	56.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	PS	OT	OT		
RECEIVING WATER BODY		O FRENCH CRAIN	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL		
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	11.00	7.00	8.00	7.00 7.00	5.90		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.00		228.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	1,480.00		149.00				
- ASH SETTLING				173,000.00	105,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 176.00	4 122.00	3 84.00	2 394.50	3 225.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATIONS[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922 1961	1924 1947	1919 1923	1958 1962	1951 1953		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.70 25.00	10.00 18.00	15.00 19.00	15.00 19.00	20.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	279.20	362.00	145.00	486.00	246.60		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	243.00	364.00	148.00	486.00	246.60		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,711.00	776.00	428.00	3,447.00	1,146.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	66.00						
COST OF CHEMICAL ADDITIVES ($1,000)							

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	34.00						
COST OF CHEMICAL ADDITIVES ($1,000)	7.00						

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	MILLSTONE POINT COMPANY	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	MINNKOTA POWER COOP.
4	NAME OF PLANT	MILLSTONE #1	AURORA	BOSWELL	HIBBARD	YOUNG
5	UTILITY-PLANT CODE	305800-0100	307000-0100	307000-0300	307000-0700	307500-0550
6	STATE	CONNECTICUT	MINNESOTA	MINNESOTA	MINNESOTA	NORTH DAKOTA
7	COUNTY	NEW LONDON	ST. LOUIS	ITASCA	ST. LOUIS	OLIVER
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	041 01	129 09	129 07	129 04	172 10
9	PLANT CAPACITY (MW)	661.50	116.10	150.00	122.50	256.50
10	ANNUAL GENERATION (MWH)[3]	3,175,000	471,300	945,600	446,800	1,841,800
11	PLANT HEAT RATE (BTU/KWH)[3]	10,470	12,749	10,844	14,597	11,212

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		351.80	597.10	336.00	1,612.00
13	AVERAGE HEAT CONTENT (BTU/LB)		8,304	8,516	8,997	6,391
14	AVERAGE SULFUR CONTENT (%)		1.00	.93	1.44	.70
15	AVERAGE ASH CONTENT (%)		10.51	9.58	9.24	8.28
16	AVERAGE MOISTURE CONTENT (%)		26.78	26.40	19.90	38.82
17	OIL: CONSUMPTION (1,000 BARRELS)		28.90	14.60		17.60
18	AVERAGE HEAT CONTENT (BTU/GAL)		137,000	137,000		140,000
19	AVERAGE SULFUR CONTENT (%)		2.30	.03		.30
20	GAS: CONSUMPTION (1,000 MCF)				472.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,007	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		2	2	4	1
23	- NO. OF WET BOTTOM					1
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS		2	2	4	1
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		22.00	20.00	26.60 26.80	28.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		65.00	85.50	30.20 85.80	70.00
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH		97.80	85.50	30.20 85.00	73.30
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.89	7.07	5.72	3.66
40	SULFUR DIOXIDE (1,000 TONS)		6.90	10.53	9.22	22.13
41	NITROGEN OXIDES (1,000 TONS)		3.17	5.41	3.12	44.37
42	STACKS: - TOTAL NO.		2	1	3	1
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	139.00 300.00		250.00	218.00 345.00	250.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		36.30	52.33	27.70	125.00
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					5.00
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		51.00	84.00	111.00	220.00
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)		428.00	133.00	95.00	218.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		19.50	14.60	20.00	35.00
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		21.20	14.60	20.00	35.00
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B NIANTIC	L COLBY	R MISSISSIPPI	R ST. LOUIS	C SQUARE BUTTE
62	AVERAGE RATE OF WITHDRAWAL (CFS)	389.00	210.00	183.69	364.00	19.00
63	AVERAGE RATE OF DISCHARGE (CFS)	389.00	210.00	183.69	364.00	15.60
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.35	1.81	1.58	3.13	3.40
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	SEP DEC	AUG DEC	AUG DEC	AUG FEB
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 50.00	75.00 43.00	80.00 40.00	73.00 34.00	72.00 31.00
67	AT OUTFALL, SUMMER - WINTER	100.00 50.00	89.00 57.00	90.00 60.00	84.00 48.00	77.00 36.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	126,247.00	127.00	693.00	5,489.00	1.00
69	- WINTER	126,287.00	25.00	1,396.00	1,296.00	.50
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.70	1.60	.88	.20
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	21.60	.60	22.50	.09	85.00
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					35.00
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		6.75			5.00
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	112.00	1.00	16.00 .15	32.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	.50 YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	OT	OT
78	RECEIVING WATER BODY		R PARTRIDGE	R MISSISSIPPI	R ST. LOUIS	C SQUARE BUTTE
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		10.10 4.20	9.50 6.50	10.50 8.70	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		.19 4.50	.40 5.80	4.50 5.50	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		58.30	56,000.00	1,140.00	
82	- ASH SETTLING		27,400.00	11,500.00	56,800.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 661.50	2 116.10	2 150.00	4 124.50	
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)					
86	COOLING TOWER(S)					1 256.50
87	COMBINATION[21]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1968	1953	1958 1959	1931 1951	1967
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	21.30	14.00	13.50	15.00 26.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	935.00	186.00	234.00	356.40	250.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	935.00	210.00	240.00	364.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)					
93	COOLING PONDS ($1,000)		428.00	1,200.00	408.00	
94	COOLING TOWERS ($1,000)					650.00

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	300.00	29.00	24.00	49.00	5.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.50	.20	2.80	9.00	1.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.00	10.80	2.50	22.50	9.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	15.00	3.60	5.00	.40	39.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	
NAME OF PLANT	EATON	SWEATT	WATSON	WILSON	DELTA	
UTILITY-PLANT CODE	308000-0100	308000-0300	308000-0400	308500-0100	308500-0300	
STATE	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	
COUNTY	FORREST	LAUDERDALE	HARRISON	WARREN	BOLIVAR	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	005 03	005 03	005 03	005 08	134 Go	
PLANT CAPACITY (MW)	77.63	95.00	637.35	1,327.60	220.50	
ANNUAL GENERATION (MWH)[3]	208,300	505,700	3,072,100	4,464,300	949,600	
PLANT HEAT RATE (BTU/KWH)[3]	15,976	14,110	10,197	10,382	11,794	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			517.60			
AVERAGE HEAT CONTENT (BTU/LB)			12,974			
AVERAGE SULFUR CONTENT (%)			2.36			
AVERAGE ASH CONTENT (%)			10.77			
AVERAGE MOISTURE CONTENT (%)			7.64			
OIL: CONSUMPTION (1,000 BARRELS)	93.60	225.40	343.30	1,403.20	562.62	
AVERAGE HEAT CONTENT (BTU/GAL)	145,650	144,804	138,870	137,576	151,295	
AVERAGE SULFUR CONTENT (%)	2.32	2.45	.10	.20	2.70	
GAS: CONSUMPTION (1,000 MCF)	2,917.50	5,327.50	15,901.50	36,592.81	7,523.28	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	945	1,082	1,058	1,045	1,015	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	2	4	2	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS			1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	17.00	11.00 20.00	6.00 8.00	1.50	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.00			
TESTED, LOW - HIGH			97.30			
EST., LOW - HIGH			97.30			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.02	.04	1.33	.24	.09	
SULFUR OIOXIDE (1,000 TONS)	.73	1.85	23.94	.94	5.10	
NITROGEN OXIDES (1,000 TONS)	.78	1.54	8.52	10.23	2.71	
STACKS: - TOTAL NO.	2	1	4	3	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	125.00	175.00	109.00 350.00	236.00	130.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					.02	
TOTAL ASH: COLLECTED (1,000 TONS)[10]			57.00			
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)			393.50			
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	39.00	49.00	269.60		60.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			61.00			
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			61.00		6.32	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R LEAF	W	B BILOXI BAY EST	R MISSISSIPPI	C POND	
AVERAGE RATE OF WITHDRAWAL (CFS)	178.00		752.00	1,027.00	7.91	
AVERAGE RATE OF DISCHARGE (CFS)	178.00		752.00	1,027.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.53		0.47	0.83	7.91	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	SEP JAN		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 64.00		95.00 74.00	83.00 50.00		
AT OUTFALL, SUMMER - WINTER	107.00 82.00		121.00 86.00	111.00 65.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	669.00		176.00	337,160.00		
- WINTER	5,500.00		3,140.00	686,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: RHOSRHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	.08	.60		1.45	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	21.70		3.50	277.45	4.85	
LIME (TONS), COOLING WATER - BOILER MAKEUP		5.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.00			.21	.90	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]	ST	ST	ST	OT	ST	
RECEIVING WATER BODY				R MISSISSIPPI		
POND DISCHARGE[19]: RH, BOILER BLOWDOWN - ASH SETTLING			9.00			
SUSPENDED SOLIDS (RHM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING			51,600.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 77.64			2 1,327.60		
ONCE THROUGH COOLING (SALINE)			4 595.50			
COOLING POND(S)						
COOLING TOWER(S)		2 95.00			2 220.50	
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1945 1949	1951 1953	1957 1968	1966 1971	1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.80	15.70	13.70 19.95	28.00 28.30	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	171.00	145.60	683.00	696.00	308.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	177.00		752.00	916.00	308.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	248.00		1,090.70	6,190.20	380.00	
COOLING PONDS ($1,000)					595.50	
COOLING TOWERS ($1,000)		739.00			17.18	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.40	7.23	29.90	116.00	12.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.60	26.22	24.40	.04	3.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.70	34.90	35.20	18.00	3.00	
COST OF CHEMICAL ADDITIVES ($1,000)	4.50	1.20	25.00	27.50	2.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSOURI PUBLIC SERVICE CO.	MISSOURI PUBLIC SERVICE CO.	MONONGAHELA (ALLEGHENY) POWER CO.	
NAME OF PLANT	NATCHEZ	BROWN	GREEN	SIBLEY	ALBRIGHT	
UTILITY-PLANT CODE	308500-0400	308500-0500	309500-0400	309500-0700	311000-0100	
STATE	MISSISSIPPI	MISSISSIPPI	MISSOURI	MISSOURI	WEST VIRGINIA	
COUNTY	ADAMS	HINDS	CASS	JACKSON	PRESTON	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	005 08	005 08	094 10	094 10	235 05	
PLANT CAPACITY (MW)	66.00	383.20	49.50	518.50	278.25	
ANNUAL GENERATION (MWHI[3]	338,400	1,093,300	133,100	2,052,600	1,868,700	
PLANT HEAT RATE (BTU/KWHI[3]	12,506	12,815	14,398	10,327	11,313	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			4.85	891.09	903.70	
AVERAGE HEAT CONTENT (BTU/LB)			11,245	11,902	11,680	
AVERAGE SULFUR CONTENT (%)			3.70	3.74	2.36	
AVERAGE ASH CONTENT (%)			11.80	13.16	17.04	
AVERAGE MOISTURE CONTENT (%)			10.50	6.87	5.57	
OIL: CONSUMPTION (1,000 BARRELS)	31.93	212.06			5.20	
AVERAGE HEAT CONTENT (BTU/GAL)	151,969	152,440			139,000	
AVERAGE SULFUR CONTENT (%)	2.25	2.75			.25	
GAS: CONSUMPTION (1,000 MCF)	4,225.41	12,237.24	1,772.99			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	952	1,034	1,020			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	4	2	3	3	
- NO. OF WET BOTTOM				3		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS			2	2	2	
- NO. WITH COMBINATION PRECIPITATORS[4]				2		
- NO. WITH DESULFURIZATION SYSTEMS					1	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	17.00	8.00 17.00	17.00	15.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			94.00	85.00	83.60	
TESTED, LOW - HIGH					83.00	
ESTIMATED, LOW - HIGH			94.00		83.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					83.00	
TESTED, LOW - HIGH				99.00	97.50	
EST., LOW - HIGH					93.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				99.00	93.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.04	.03	.32	15.97	
SULFUR DIOXIDE (1,000 TONS)	.24	1.96	.35	65.00	40.74	
NITROGEN OXIDES (1,000 TONS)	.89	2.85	.39	24.65	8.14	
STACKS: - TOTAL NO.	2	4	2	3	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	141.00	150.00	150.00	183.00 700.00	128.00 225.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]			.33	116.11	122.80	
SOLD (1,000 TONS)[11]					1.10	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			75.00		424.00	
ELECTROSTATIC PRECIPITATORS ($1,000)				1,200.00		
COMBINATION PRECIPITATORS ($1,000)[4]					673.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	33.00	92.29	40.00	1,184.00	202.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					126.10	
REVENUES FROM SALE OF ASH ($1,000)					.80	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					126.10	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					.80	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R PEARL	L BIG CREEK	B MISSOURI	B CHEAT	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.64	1.67	.44	418.00	420.00	
AVERAGE RATE OF DISCHARGE (CFS)				418.00	419.50	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.64	1.67	.44	3.59	3.61 .50	
PEAK LOAD MONTH : SUMMER - WINTER[15]			SEP OEC	SEP OEC	JUL OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				80.00 40.00	79.00 38.00	
AT OUTFALL, SUMMER - WINTER				100.00 70.00	101.00 60.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					898.00	
- WINTER					3,460.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.75 .21	.75	2.40 .25		1.85	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01	35.00	.03		52.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP	206.41					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	42.20				5.30	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.03	11.00	1.25		.68	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES		YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	ST	
RECEIVING WATER BODY	C ST. CATHERINE				M CHEAT	
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING				7,250.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				3 518.50	3 304.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS[21]		2 304.70				
COOLING TOWER(S)	1 66.00	2 78.50	2 49.50			
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951	1949 1959	1954 1956	1960 1969	1952 1954	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00	15.60 18.00	18.00	17.50 19.20	22.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	109.20	508.90	80.00	521.00	341.90	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				526.00	346.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)		2,432.00			965.00	
COOLING TOWERS ($1,000)	250.00	485.60	452.00		710.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.00	322.00			29.30	
COST OF CHEMICAL ADDITIVES ($1,000)	32.15	2.00				

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	3.00			26.30	
COST OF CHEMICAL ADDITIVES ($1,000)	.41	5.00			9.60	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	ALLEGHENY POWER SERVICE CORP MONONGAHELA PWR	MONROE, CITY OF	
2							
3							
4	NAME OF PLANT	FORT MARTIN	RIVESVILLE	WILLOW ISLAND	MORRISON	MONROE	
5	UTILITY-PLANT CODE	311000-0200	311000-0300	311000-0400	311000-0500	312000-0100	
6	STATE	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	LOUISIANA	
7	COUNTY	MONONGALIA	MARION	PLEASANTS	MORRISON	OUACHITA	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	235 05	235 05	179 05	235 05	019 08	
9	PLANT CAPACITY (MW)	1,152.00	174.75	215.00	684.00	165.99	
10	ANNUAL GENERATION (MWH)[3]	7,417,200	841,800	1,475,800	81,500	437,800	
11	PLANT HEAT RATE (BTU/KWH)[3]	9,046	13,977	10,509	11,568	12,947	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,763.20	466.40	707.40	36.30		
13	AVERAGE HEAT CONTENT (BTU/LB)	12,141	12,418	10,951	12,520		
14	AVERAGE SULFUR CONTENT (%)	2.68	3.41	4.48	4.10		
15	AVERAGE ASH CONTENT (%)	14.23	12.91	18.78	15.10		
16	AVERAGE MOISTURE CONTENT (%)	5.08	4.08	5.83	2.50		
17	OIL: CONSUMPTION (1,000 BARRELS)	19.74	.97	2.85			
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	139,000	139,000			
19	AVERAGE SULFUR CONTENT (%)	.25	.25	.25			
20	GAS: CONSUMPTION (1,000 MCF)		383.79		32.04	5,666.28	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		522		1,006	1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	4	2	1	7	
23	- NO. OF WET BOTTOM		2	1			
24	- NO. WITH FLY ASH REINJECTION			1			
25	- NO. WITH MECHANICAL PRECIPITATORS		4	1			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2		1	1		
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	25.00 45.00	20.00	25.00	4.50 8.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00			
31	TESTED, LOW - HIGH		56.00 70.00	59.00			
32	ESTIMATED, LOW - HIGH		56.00 70.00	59.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00		90.00	99.50		
34	TESTED, LOW - HIGH	99.40		73.00			
35	EST., LOW - HIGH	99.00 99.40		73.00	99.50		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	2.63	18.27	11.43	.02		
40	SULFUR DIOXIDE (1,000 TONS)	146.25	31.22	62.40	2.92		
41	NITROGEN OXIDES (1,000 TONS)	24.91	5.01	17.13	.88	1.11	
42	STACKS: - TOTAL NO.	2	6	2	1	7	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	550.00	152.00 190.00	138.00 216.00	1,000.00	65.00 80.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	456.30	50.20	107.70			
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		465.00	120.00			
51	ELECTROSTATIC PRECIPITATORS ($1,000)	4,121.00		407.00	2,025.00		
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	1,531.00	26.00	156.00	3,789.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	237.30	87.90	71.20			
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	237.30	87.90	71.20			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, N, M & O EXPL. IN FOOTNOTES)	R MONONGAHELA	R MONONGAHELA	R OHIO	R WEST FORK	O OUACHITA	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	40.00	375.00	225.00		163.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	22.00	374.90	224.97		163.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	18.00	3.23 .10	1.94 .03		1.40	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		85.00 41.00	83.00 37.00		87.00 48.00	
67	AT OUTFALL, SUMMER - WINTER		101.00 57.00	99.00 53.00		91.00 51.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,350.00	2,380.00	45,000.00	635.00	168.00	
69	- WINTER	6,429.00	6,010.00	70,000.00	1,575.00	121.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]				C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.00	.20		.59	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	289.90 140.90		183.65 .40	40.00		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		12.05	34.00	.75		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	9.25	5.90		2.50		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	25.00 6.10	.27	4.00 .90	.25	4.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST/OT	PS	ST	OT	PS	
78	RECEIVING WATER BODY	R MONONGAHELA		R OHIO	D ASH RONO		
79	POND DISCHARGE[19]: RH, BOILER BLOWDOWN - ASH SETTLING	6.30	6.50		6.90		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	93.00	69.00		10.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	77,300.00	115,949.99		433.19		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		6 214.00	2 245.00		7 165.90	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)	2 1,102.00			1 650.00		
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967 1968	1919 1951	1949 1960	1972	1945 1968	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	24.00	12.00 23.00	10.00 21.00	30.42	4.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,114.00	366.70	270.70	401.06	329.90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,120.00	367.00	297.00		329.90	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		475.00	1,205.00			
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)	9,724.00			4,497.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	337.70	44.90	37.50	6.80		
96	COST OF CHEMICAL ADDITIVES ($1,000)	28.50	1.00	.40		2.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	67.40	27.90	35.10	6.80	8.90	
98	COST OF CHEMICAL ADDITIVES ($1,000)	50.10	16.60	5.60	13.90	7.40	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	MONTANA-DAKOTA UTIL. CO.	MONTANA-DAKOTA UTIL. CO.	MONTAUP ELECTRIC CO.	MORGAN CITY, LA.	NEW BEDFORD GAS & EDISON LIGHT CO.	
NAME OF PLANT	HESKETT	LEWIS & CLARK	SOMERSET	MUNICIPAL	CANNON	
UTILITY-PLANT CODE	313000-0500	313000-0900	314000-0100	324250-0100	327000-0100	
STATE	NORTH DAKOTA	MONTANA	MASSACHUSETTS	LOUISIANA	MASSACHUSETTS	
COUNTY	MORTON	RICHLAND	BRISTOL	ST. MARY	BRISTOL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	172 10	143 10	120 01	106 08	120 01	
PLANT CAPACITY (MW)	100.00	50.00	325.00	33.42	93.00	
ANNUAL GENERATION (MWH)[3]	612,900	340,800	1,772,300	132,300	412,700	
PLANT HEAT RATE (BTU/KWH)[3]	12,994	12,642	11,757	13,256	15,353	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)	569.10	320.20				
AVERAGE HEAT CONTENT (BTU/LB)	6,959	6,517				
AVERAGE SULFUR CONTENT (%)	.74	.57				
AVERAGE ASH CONTENT (%)	6.85	8.20				
AVERAGE MOISTURE CONTENT (%)	36.12	37.83				
OIL: CONSUMPTION (1,000 BARRELS)			3,358.80		954.00	
AVERAGE HEAT CONTENT (BTU/GAL)			147,691		145,519	
AVERAGE SULFUR CONTENT (%)			.66		.86	
GAS: CONSUMPTION (1,000 MCF)		141.20		1,753.90	532.20	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,040		1,000	1,000	
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	2	1	8	3	12	
- NO. OF WET BOTTOM			1			
- NO. WITH FLY ASH REINJECTION	2					
- NO. WITH MECHANICAL PRECIPITATORS	2	1	2		2	
- NO. WITH ELECTROSTATIC PRECIPITATORS					3	
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	25.00 30.00	25.00	15.00 40.00	2.50 3.00	14.00 35.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	88.00 90.00	85.70	87.50 88.50		95.00	
TESTED, LOW - HIGH					95.00	
ESTIMATED, LOW - HIGH	88.00 90.00	85.70	85.00		95.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					94.00	
TESTED, LOW - HIGH					94.00	
EST., LOW - HIGH					94.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					78.00 88.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	6.78	3.23	.30		.04	
SULFUR DIOXIDE (1,000 TONS)	7.81	3.77	7.44		2.75	
NITROGEN OXIDES (1,000 TONS)	4.27	2.91	7.41	.34	2.21	
STACKS: - TOTAL NO.	2	1	4	3	6	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	125.00	200.00	282.00 332.00	60.00	175.00 250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.16		.10	
TOTAL ASH: COLLECTED (1,000 TONS)[10]	35.30	21.50	.18		.10	
SOLD (1,000 TONS)[11]		4.90				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	95.60	49.00	143.80		7.60	
ELECTROSTATIC PRECIPITATORS ($1,000)					166.40	
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	92.90	43.20	174.30		122.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	37.60	22.00	2.00		12.00	
REVENUES FROM SALE OF ASH ($1,000)		4.90				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	53.40	30.40	7.70		21.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		4.90				
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	R YELLOWSTONE	R TAUNTON	W	B ACUSHNET	
AVERAGE RATE OF WITHDRAWAL (CFS)	57.50	40.00	553.00		124.00	
AVERAGE RATE OF DISCHARGE (CFS)	57.40	39.90	553.00		124.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.49 .10	.34 .10	4.76		1.07	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	MAY MAR		AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66.00 33.00	78.00 33.00	67.00 54.00		77.00 50.00	
AT OUTFALL, SUMMER - WINTER	92.00 87.00	105.00 66.00	82.00 66.00		98.00 65.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	26,230.00	9,950.00	130,000.00		104.00	
- WINTER	24,420.00	11,000.00	130,000.00		121.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]					O	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	.03	.90 .63	.76		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.38	.07	1.85 1.39	5.88		
LIME (TONS), COOLING WATER - BOILER MAKEUP	9.43	8.65				
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.95				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.55	.34	24.00	.75	57.80 .25	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	OT	OT	ST	PS	PS	
RECEIVING WATER BODY			R TAUNTON			
POND DISCHARGE[16]: PH, BOILER BLOWDOWN - ASH SETTLING			7.00			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	13.50	24.00				
- ASH SETTLING		2,300.00	3.75			
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (MW) USING[17]: ONCE THROUGH COOLING (FRESH)	2 100.00	1 50.00		5 32.50		
ONCE THROUGH COOLING (SALINE)			6 344.00		6 120.50	
COOLING PONDS(S)						
COOLING TOWER(S)						
COMBINATION[5][2]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1963	1958	1925 1959	1963 1969	1917 1950	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	25.40 28.30	25.00	14.25 19.15	20.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	98.70	49.00	552.00	23.08	242.10	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	98.70	49.00	517.00		444.60	
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS ($1,000)	692.80	993.70	853.72		430.80	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)				86.00		
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.00	22.00	105.60		29.00	
COST OF CHEMICAL ADDITIVES ($1,000)			3.00	4.60	2.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.00	12.60	3.50		8.00	
COST OF CHEMICAL ADDITIVES ($1,000)	2.40	1.80	1.60	6.40	.20	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	N. W. ELECTRIC POWER COOP. INC.	NEBRASKA PUBLIC POWER SYS.	NEBRASKA PUBLIC POWER SYS.	NEVADA POWER CO.	NEVADA POWER CO.	1
2							2
3							3
4	NAME OF PLANT	MISSOURI CITY	KRAMER	LINCOLN	CLARK	GARDNER	4
5	UTILITY-PLANT CODE	327500-0100	331500-0400	331500-0500	333000-0100	333000-0300	5
6	STATE	MISSOURI	NEBRASKA	NEBRASKA	NEVADA	NEVADA	6
7	COUNTY	CLAY	SARPY	LANCASTER	CLARK	CLARK	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	094 10	085 10	145 10	013 15	013 15	8
9	PLANT CAPACITY (MW)	40.00	113.50	31.70	190.28	227.27	9
10	ANNUAL GENERATION (MWH)[3]	116,400	423,500	34,500	959,900	1,646,500	10
11	PLANT HEAT RATE (BTU/KWH)[3]	13,797	12,459	29,556	11,335	10,015	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	30.82	146.40	15.10		653.86	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,621	11,679	12,057		12,496	13
14	AVERAGE SULFUR CONTENT (%)	3.84	3.04	4.30		.52	14
15	AVERAGE ASH CONTENT (%)	11.19	11.13	12.30		7.50	15
16	AVERAGE MOISTURE CONTENT (%)	14.99	6.55	1.40		5.97	16
17	OIL: CONSUMPTION (1,000 BARRELS)	150.90		9.70	39.54	7.70	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,174		156,600	152,976	137,381	18
19	AVERAGE SULFUR CONTENT (%)	1.80		2.00	.40	.25	19
20	GAS: CONSUMPTION (1,000 MCF)		1,840.60	594.20	9,811.66		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,002	996	1,063		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	4	3	3	2	22
23	- NO. OF WET BOTTOM	2		1		2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	4	2		2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	17.00	17.00	9.00 9.50	18.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	83.00	85.00		88.10	30
31	TESTED, LOW - HIGH	52.00				71.85 73.78	31
32	ESTIMATED, LOW - HIGH		83.00	85.00		80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.09	2.35	.24	.01	6.37	39
40	SULFUR DIOXIDE (1,000 TONS)	3.24	8.61	1.34	.06	6.66	40
41	NITROGEN OXIDES (1,000 TONS)	.79	1.68	.27	2.02	9.81	41
42	STACKS: - TOTAL NO.	2	2	2	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	130.00	252.00	207.00	100.00 156.00	200.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	1.80	14.00	1.30		37.40	45
46	SOLD (1,000 TONS)[11]		1.50			5.08	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	20.00	885.00	109.00		93.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	20.00	86.00	40.00	77.00	245.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	3.98	13.50	5.50			55
56	REVENUES FROM SALE OF ASH ($1,000)					5.08	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	3.98	13.50	5.50		866.11	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		.20			5.08	60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	R MISSOURI	M	O SEWAGE EFFLNT.	R MUDDY	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	57.93	158.38		3.75	4.40	62
63	AVERAGE RATE OF DISCHARGE (CFS)	57.93	158.36		.83		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.50	1.36 .02		2.92	4.40	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG DEC		AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 31.00	78.00 34.00				66
67	AT OUTFALL, SUMMER - WINTER	92.00 40.00	86.00 45.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	62,800.00	50,000.00				68
69	- WINTER	27,710.00	18,500.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	.36	1.50	.22	31.00 .06	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.50	.03	9.00	.06	.03	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	9.00	104.20	50.00	1,720.00		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		24.83				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	15	1.00	1.30	171.15	6.81	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	SW	PS	ST	ST	77
78	RECEIVING WATER BODY		R MISSOURI				78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.50 6.00	8.70			10.70	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	2,000.00 250.00	70.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	95.00	185.00				81
82	- ASH SETTLING	314.00				42,000.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 40.00	3 112.50				83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)			3 29.00	3 190.30	2 227.30	86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953	1949 1951	1948 1956	1955 1961	1964 1967	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST[22]	12.00		8.00		17.00 18.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	105.34	306.00	89.00	317.00	275.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	52.21	321.00				91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	725.70	1,000.00				92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)			202.00	491.00	637.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.20	10.50	4.50	168.09	132.35	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.00	2.40	116.70	104.24	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.30	10.50	22.00	104.93	112.06	97
98	COST OF CHEMICAL ADDITIVES ($1,000)		5.20	3.20	2.39	1.41	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	NEVADA POWER CO.	NEW ENGLAND POWER CO.	NEW ENGLAND POWER CO.	NEW JERSEY POWER & LIGHT CO.	NEW ORLEANS PUBLIC SERVICE INC.	
NAME OF PLANT	SUNRISE	BRAYTON	SALEM HARBOR	GILBERT	PATERSON	
UTILITY-PLANT CODE	333000-0500	334000-0200	334000-1200	335000-0100	337500-0100	
STATE	NEVADA	MASSACHUSETTS	MASSACHUSETTS	NEW JERSEY	LOUISIANA	
COUNTY	CLARK	BRISTOL	ESSEX	HUNTERDON	ORLEANS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	013 15	120 01	119 01	151 02	106 08	
PLANT CAPACITY (MW)	81.60	1,160.00	801.90	126.10	218.25	
ANNUAL GENERATION (MWH)[3]	556,900	7,482,600	2,843,100	652,300	1,183,600	
PLANT HEAT RATE (BTU/KWH)[3]	10,217	9,012	10,609	12,202	12,338	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	13.89	10,889.50	4,868.00	954.00	225.25	
AVERAGE HEAT CONTENT (BTU/GAL)	152,200	146,927	147,531	145,136	136,085	
AVERAGE SULFUR CONTENT (%)	.40	.77	.66	1.00	1.19	
GAS: CONSUMPTION (1,000 MCF)	5,167.21			2,087.00	12,560.46	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,084			1,030	1,060	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	3	4	3	4	
- NO. OF WET BOTTOM		3	3			
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS		3	4	2		
- NO. WITH COMBINATION PRECIPITATORS[4]				1		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00	4.00 13.00	10.00 25.00	4.10 10.00	9.00 12.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		98.40 99.00	90.00 97.00	90.00 99.00		
TESTED, LOW - HIGH		85.10 99.50	96.30	75.60		
EST., LOW - HIGH		85.00 90.00	80.00 90.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.23	.14	.03	.04	
SULFUR OXIDES (1,000 TONS)	.02	25.23	10.62	3.20	.89	
NITROGEN OXIDES (1,000 TONS)	1.04	24.01	10.73	2.51	2.94	
STACKS: - TOTAL NO.	1	3	4	3	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	135.00	352.00	250.00 500.00	176.00 205.00	151.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		1.40	.40			
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)		2,182.00	3,858.00	289.00		
COMBINATION PRECIPITATORS ($1,000)[4]				407.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	26.00	896.00	1,513.00	61.50	127.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		269.50				
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O SEWAGE EFFLNT.	R TAUNTON	H SALEM	R DELAWARE	O INNER HRBR CNL	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.69	1,187.70	754.00	276.00	235.00	
AVERAGE RATE OF DISCHARGE (CFS)	.38	1,187.70	754.00	276.00	235.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.31	10.21	6.48	2.37	2.02	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	JUL OEC	JUL DEC	JUL OEC	MAY DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		85.00 51.00	70.00 48.00	83.00 32.00	84.00 57.00	
AT OUTFALL, SUMMER - WINTER		95.00 64.00	88.00 66.00	95.00 49.00	119.00 105.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		TIDAL	TIDAL	13,527.00		
- WINTER		TIDAL	TIDAL	21,574.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.42	1.10	6.05	.01	3.63	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.07	173.59	59.21		1.45	
LIME (TONS), COOLING WATER - BOILER MAKEUP	300.00					
ALUM (TONS), COOLING WATER - BOILER MAKEUP				.15		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	150.00	115.46	62.68	6.75 .15	82.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	PS		PS	
RECEIVING WATER BODY						
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		4.50 4.50	9.50 6.60			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		2,000.00	10.00 12.50			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		58.18	64.35			
- ASH SETTLING		15,646.00	30,835.20			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				5 126.10		
ONCE THROUGH COOLING (SALINE)		3 1,162.00	4 801.94		4 218.25	
COOLING POND(S)						
COOLING TOWER(S)	1 81.60					
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1964	1963 1969	1951 1972	1930 1949	1947 1954	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		12.00 17.33	8.70 28.30	13.20 17.30	16.90 17.80	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	106.10	1,403.60	948.89	221.00	334.30	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,398.10	1,119.79	233.00	334.30	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		3,963.00	3,387.40	290.50	1,848.60	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	180.00					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	105.02	9.00	40.40	19.40	42.00	
COST OF CHEMICAL ADDITIVES ($1,000)	79.07	3.60	12.80	4.80	11.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.47	58.50	24.20	21.80	40.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.09	29.40	15.80	1.50	13.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	NEW ORLEANS PUBLIC SERVICE INC.	NEW ORLEANS PUBLIC SERVICE INC.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	
4	NAME OF PLANT	MARKET STREET	MICHOUD	GOUDEY	GREENIDGE	MICKLING	
5	UTILITY-PLANT CODE	337500-0200	337500-0300	339000-0600	339000-0700	339000-0900	
6	STATE	LOUISIANA	LOUISIANA	NEW YORK	NEW YORK	NEW YORK	
7	COUNTY	ORLEANS	ORLEANS	BROOME	YATES	STEUBEN	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	106 08	106 08	163 02	160 04	164 02	
9	PLANT CAPACITY (MW)	96.25	959.25	145.75	160.00	70.00	
10	ANNUAL GENERATION (MWH) 3/	229,800	3,972,000	671,900	991,900	483,600	
11	PLANT HEAT RATE (BTU/KWH) 3/	15,402	10,431	11,052	11,127	12,993	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			318.67	467.33	291.57		
13	AVERAGE HEAT CONTENT (BTU/LB)			11,542	11,487	10,775		
14	AVERAGE SULFUR CONTENT (%)			2.20	1.98	1.60		
15	AVERAGE ASH CONTENT (%)			17.65	16.50	22.69		
16	AVERAGE MOISTURE CONTENT (%)			5.92	7.86	6.49		
17	OIL: CONSUMPTION (1,000 BARRELS)		109.14	11.98	55.69			
18	AVERAGE HEAT CONTENT (BTU/GAL)		151,049	138,347	137,500			
19	AVERAGE SULFUR CONTENT (%)		1.16	.15	.20			
20	GAS: CONSUMPTION (1,000 MCF)	3,367.71	38,445.77					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,051	1,061					

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	3	6	6	4		
23	- NO. OF WET BOTTOM			6	6	4		
24	- NO. WITH FLY ASH REINJECTION					4		
25	- NO. WITH MECHANICAL PRECIPITATORS				5	4		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			6	1			
27	- NO. WITH COMBINATION PRECIPITATORS 4/				2			
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00 12.00	12.00	30.00 31.00	21.00 25.00	25.00 26.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				76.40 80.00	90.00 93.50		
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH				75.00	80.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH			92.00 96.00	98.50 99.00			
34	TESTED, LOW - HIGH			75.70 85.00				
35	EST., LOW - HIGH			85.00	84.00			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.02	5.47	8.46	13.78		
40	SULFUR DIOXIDE (1,000 TONS)		.43	13.75	18.32	9.14		
41	NITROGEN OXIDES (1,000 TONS)	.66	7.74	4.61	7.13	2.19		
42	STACKS: - TOTAL NO.	2	5	2	4	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	315.00 164.00	186.00	282.00 287.00	227.00 250.00	142.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/			53.70	78.10	82.00		
46	SOLD (1,000 TONS) 11/				0.50			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				96.94	108.30		
51	ELECTROSTATIC PRECIPITATORS ($1,000)			830.54	830.00			
52	COMBINATION PRECIPITATORS ($1,000) 4/				197.00			
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	84.00	189.00	80.29	275.81	55.30		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			89.98	88.70	88.60		
56	REVENUES FROM SALE OF ASH ($1,000)				2.67			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			238.98	167.70	88.60		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				2.67			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P MISSISSIPPI	O MISS. R OUTLET	R SUSQUEHANNA	L SENECA	R CHEMUNG	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	83.00	696.00	126.99	282.19	99.69	
63	AVERAGE RATE OF DISCHARGE (CFS)	83.00	696.00	126.98	282.10	99.67	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.71	5.99	1.09 .01	2.43 .09	.86 .02	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	JUL APR	AUG JAN	AUG JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 56.00	89.00 81.00	78.00 34.00	76.00 40.00	72.00 36.00	
67	AT OUTFALL, SUMMER - WINTER	104.00 74.00	118.00 106.00	97.00 56.00	88.00 54.00	97.00 73.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	307,000.00		1,130.00	370.00	653.00	
69	- WINTER	608,000.00		5,730.00	474.00	2,525.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.63	1.31	.40	.90	.10	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.21	.13	.05	.05		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				1.80		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		430.56	4.00	16.00	3.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST	ST	ST	ST	
78	RECEIVING WATER BODY		O MISS. R OUTLET		L SENECA		
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING			10.40	6.20	10.90 7.70	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			170.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			2,332.00		25.42	
82	- ASH SETTLING				61,500.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 96.25		3 125.00	4 180.00	2 70.00		
84	ONCE THROUGH COOLING (SALINE)		3 959.25					
85	COOLING PONDS(S)							
86	COOLING TOWER(S)							
87	COMBINATION 21/							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1948	1957 1967	1927 1951	1938 1953	1948 1952		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	10.92 11.98	15.10 17.20	26.00 34.00	22.00 27.00	21.50 23.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	247.30	1,158.10	226.50	300.00	116.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	247.30	1,158.10	232.50	301.00	116.50		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	930.90	3,476.70	778.00	1,647.00	392.00		
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.00	76.00	7.79	1.25	24.70		
96	COST OF CHEMICAL ADDITIVES ($1,000)		14.00	.50	6.24	.60		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	24.00	60.00	17.62	4.91	6.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	10.00	1.94	33.80	1.10		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	
NAME OF PLANT	JENNISON	MILLIKEN	OSWEGO	ALBANY	HUNTLEY	
UTILITY-PLANT CODE	339000-1100	339000-1400	341000-3800	341000-5900	341000-7900	
STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	
COUNTY	CHENANGO	TOMPKINS	OSWEGO	ALBANY	ERIE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	163 02	164 04	158 04	161 02	162 04	
PLANT CAPACITY (MW)	60.00	270.00	376.00	400.00	828.00	
ANNUAL GENERATION (MWH)[3]	225,900	1,599,300	1,716,300	2,623,400	3,449,500	
PLANT HEAT RATE (BTU/KWH)[3]	15,576	9,528	11,703	10,026	10,143	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	169.66	656.76	472.00		1,380.00	
AVERAGE HEAT CONTENT (BTU/LB)	10,406	11,553	13,192		12,658	
AVERAGE SULFUR CONTENT (%)	.98	2.09	2.79		1.95	
AVERAGE ASH CONTENT (%)	20.51	15.32	7.88		8.35	
AVERAGE MOISTURE CONTENT (%)	9.96	7.77	5.26		7.44	
OIL: CONSUMPTION (1,000 BARRELS)		15.71	1,219.00	4,197.00		
AVERAGE HEAT CONTENT (BTU/GAL)		137,811	149,072	149,202		
AVERAGE SULFUR CONTENT (%)		.50	2.30	2.43		
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	2	4	4	6	
- NO. OF WET BOTTOM	4	2	4		4	
- NO. WITH FLY ASH REINJECTION	4					
- NO. WITH MECHANICAL PRECIPITATORS	4		4	4		
- NO. WITH ELECTROSTATIC PRECIPITATORS		2				
- NO. WITH COMBINATION PRECIPITATORS[4]					6	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		24.00	12.00	22.00	14.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	92.00		89.00	80.00 89.00		
TESTED, LOW - HIGH			83.00 89.90	33.00		
ESTIMATED, LOW - HIGH	86.00		86.00 89.00	33.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.00			90.60 96.50	
TESTED, LOW - HIGH		99.40 99.50				
EST., LOW - HIGH					91.00 95.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	7.18	.36	2.85	.47	6.62	
SULFUR OIOXIDE (1,000 TONS)	3.33	27.03	33.54	34.36	52.31	
NITROGEN OXIDES (1,000 TONS)	1.27	9.89	9.22	9.26	16.13	
STACKS: - TOTAL NO.	2	2	4	4	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	152.00	250.00	364.00	345.00	350.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.36		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	42.80	100.70	35.80	3.50	161.10	
SOLD (1,000 TONS)[11]					3.90	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	106.90		341.30	317.10		
ELECTROSTATIC PRECIPITATORS ($1,000)		5,700.00				
COMBINATION PRECIPITATORS ($1,000)[4]					1,417.80	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	67.88	1,089.68	222.90	306.00	1,730.10	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	148.91	136.20	3.08	35.00	400.80	
REVENUES FROM SALE OF ASH ($1,000)					5.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	148.91	136.20	3.08	35.00	400.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					5.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA	L CAYUGA	L ONTARIO	R HUDSON	R NIAGARA	
AVERAGE RATE OF WITHDRAWAL (CFS)	98.28	320.32	440.00	784.00		
AVERAGE RATE OF DISCHARGE (CFS)	98.26	320.28	440.00	784.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.85 .02	2.75 .04	3.78	0.74		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	JUN DEC	APR FEB		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	72.00 35.00	74.50 44.00	59.00	76.00		
AT OUTFALL, SUMMER - WINTER	94.00 50.00	84.50 58.00	71.00 58.00	86.00 38.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	349.00	343.00	467.00			
- WINTER	1,926.00	779.00	572.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.09	.20		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.05	79.73	150.46	.05		
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	.90	.20	3.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.00	3.00 .45	.10	112.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES		YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST/OT	ST	PS	ST	PS	
RECEIVING WATER BODY	R SUSQUEHANNA	L CAYUGA		O DRAIN FIELD		
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	7.80		11.80	10.80	7.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					3.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING			20,000.00		11,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 60.00	2 270.00	4 376.00	4 400.00	6 828.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1945 1950	1955 1958	1940 1951	1952 1954	1942 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		25.00	11.50 13.20	10.30	10.70 13.70	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	96.80	376.00	736.00	780.00	1,292.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	100.80	376.60	736.00	780.00	1,292.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	291.00	715.00	1,516.40	410.40	3,637.80	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.17	5.75	20.00	15.00		
COST OF CHEMICAL ADDITIVES ($1,000)	.59	.37		9.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.10	10.04	2.00	30.00		
COST OF CHEMICAL ACDITIVES ($1,000)	1.28	11.80	12.00	2.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN INDIANA PUBLIC SERVICE CO.	
NAME OF PLANT	DUNKIRK	9 MILE POINT NUC	BAILLY	MITCHELL	MICHIGAN CITY	
UTILITY-PLANT CODE	341000-8000	341000-8100	345500-0100	345500-0300	345500-0400	
STATE	NEW YORK	NEW YORK	INDIANA	INDIANA	INDIANA	
COUNTY	CHAUTAUQUA	OSWEGO	PORTER	LAKE	LA PORTE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	164 04	158 04	067 04	067 04	062 04	
PLANT CAPACITY (MW)	628.00	500.00	615.60	529.40	215.03	
ANNUAL GENERATION (MWH)[3]	3,265,700	3,242,300	2,713,600	3,273,900	836,000	
PLANT HEAT RATE (BTU/KWH)[3]	9,764	10,537	10,022	9,967	12,053	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,286.00		1,186.13	1,436.73	292.30	
AVERAGE HEAT CONTENT (BTU/LB)	12,697		11,181	11,079	10,751	
AVERAGE SULFUR CONTENT (%)	2.64		3.75	3.15	3.97	
AVERAGE ASH CONTENT (%)	11.40		10.55	10.30	10.61	
AVERAGE MOISTURE CONTENT (%)	5.00		11.59	11.61	13.53	
OIL: CONSUMPTION (1,000 BARRELS)						
AVERAGE HEAT CONTENT (BTU/GAL)						
AVERAGE SULFUR CONTENT (%)						
GAS: CONSUMPTION (1,000 MCF)			670.33	796.84	3,792.33	
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,000	1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4		2	4	6	
- NO. OF WET BOTTOM			2		6	
- NO. WITH FLY ASH REINJECTION			2			
- NO. WITH MECHANICAL PRECIPITATORS	2				4	
- NO. WITH ELECTROSTATIC PRECIPITATORS			2	4	3	
- NO. WITH COMBINATION PRECIPITATORS[4]	2					
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 18.00		16.00 17.00	18.00 19.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	82.00				60.00	
TESTED, LOW - HIGH	81.60 85.60					
ESTIMATED, LOW - HIGH	80.00 83.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.50		96.50	96.00	90.00 96.00	
TESTED, LOW - HIGH	95.10 96.30		94.70	93.62		
EST., LOW - HIGH	93.50 95.50		98.10 96.50	96.00 98.00	98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	11.51		.24	3.79	.06	
SULFUR DIOXIDE (1,000 TONS)	64.47		87.18	88.70	22.74	
NITROGEN OXIDES (1,000 TONS)	11.30		32.75	13.09	8.78	
STACKS: - TOTAL NO.	3		1	2	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	310.00 312.00		400.00	230.00	270.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	174.20		124.70	145.60	31.40	
SOLD (1,000 TONS)[11]			80.10			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	149.00				152.40	
ELECTROSTATIC PRECIPITATORS ($1,000)			1,108.00	1,506.00	726.00	
COMBINATION PRECIPITATORS ($1,000)[4]	832.40					
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	617.80		544.00	537.00	236.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	799.40		110.00	290.00	56.10	
REVENUES FROM SALE OF ASH ($1,000)			13.60			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	799.40		471.66	532.85	85.70	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			13.60			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, L, B, C, D, M & O EXPL. IN FOOTNOTES)	L ERIE	L ONTARIO	L MICHIGAN	L MICHIGAN	L MICHIGAN	
AVERAGE RATE OF WITHDRAWAL (CFS)	890.00	516.00	514.00	690.00	250.00	
AVERAGE RATE OF DISCHARGE (CFS)	890.00	516.00	514.00	690.00	250.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	7.65	4.45	4.42	5.93	2.15	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	JUL DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	71.00 48.00	67.00 41.00	75.00 45.00	70.00 42.00	77.00 41.00	
AT OUTFALL, SUMMER - WINTER	83.00 58.00	101.00 76.00	91.00 71.00	80.00 58.00	87.00 57.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10		.40	.45	.10	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	29.10	134.41	47.74	30.47	2.04	
LIME (TONS), COOLING WATER - BOILER MAKEUP	11.86	28.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	.66		11.65	7.10		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.20	9.00	6.00	6.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	ST	ST	PS	
RECEIVING WATER BODY		L ONTARIO				
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00			11.50	7.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	40.00			79.40	100.00	
VOLUME (),000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	46,350.00		17,000.00	140,000.00	35,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 628.00	1 620.00	2 615.60	4 550.90	3 215.04	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1960	1967	1962 1968	1956 1970	1931 1951	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.50 15.20	32.00	10.00 21.00	10.00	8.79 10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	892.00	557.00	685.00	1,155.00	516.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	892.00	600.00	685.00	1,155.00	516.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)	4,593.60	7,660.00	3,915.00	2,522.00	799.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.30		40.44	15.75	33.90
COST OF CHEMICAL ADDITIVES ($1,000)			.74	1.08	2.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.60		6.35	36.50	30.50
COST OF CHEMICAL ADDITIVES ($1,000)	3.70	10.80	13.20	8.55	1.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	
NAME OF PLANT	BLACK DOG	HIGH BRIDGE	KING	LAWRENCE	MINNESOTA VALLEY	
UTILITY-PLANT CODE	347000-0300	347000-1300	347000-1400	347000-1500	347000-1800	
STATE	MINNESOTA	MINNESOTA	MINNESOTA	SOUTH DAKOTA	MINNESOTA	
COUNTY	DAKOTA	RAMSEY	WASHINGTON	MINNEHAHA	CHIPPEWA	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	131 07	131 07	131 07	087 10	133 07	
PLANT CAPACITY (MW)	486.66	463.84	598.40	48.00	46.00	
ANNUAL GENERATION (MWH)[3]	2,572,800	2,203,400	3,310,100	167,600	184,500	
PLANT HEAT RATE (BTU/KWH)[3]	11,032	11,635	9,612	13,770	12,797	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	668.58	499.11	1,476.39	52.55	89.02	
AVERAGE HEAT CONTENT (BTU/LB)	10,272	10,106	10,767	10,373	10,338	
AVERAGE SULFUR CONTENT (%)	2.38	2.30	3.26	2.12	1.86	
AVERAGE ASH CONTENT (%)	12.16	12.30	12.69	9.76	11.08	
AVERAGE MOISTURE CONTENT (%)	16.92	17.00	13.10	16.53	14.05	
OIL: CONSUMPTION (1,000 BARRELS)	1.77	141.37		.27	.77	
AVERAGE HEAT CONTENT (BTU/GAL)	137,000	142,000		137,000	137,000	
AVERAGE SULFUR CONTENT (%)	.30	.50		.10	.30	
GAS: CONSUMPTION (1,000 MCF)	14,540.22	14,913.73		1,213.68	515.22	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,006	986		1,002	1,002	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	12	1	3	4	
- NO. OF WET BOTTOM			1			
- NO. WITH FLY ASH REINJECTION			1	2		
- NO. WITH MECHANICAL PRECIPITATORS				3	1	
- NO. WITH ELECTROSTATIC PRECIPITATORS	4	4	1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	23.00 25.00	20.00 25.00	16.00	25.00 35.00	20.00 23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00 94.00	90.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH				85.00 94.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.00 97.80	94.00 98.00	99.00			
TESTED, LOW - HIGH	89.10 95.20	43.00 93.00	98.00		99.00	
EST., LOW - HIGH		43.00 91.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	4.73	8.93	6.71	.58	1.33	
SULFUR DIOXIDE (1,000 TONS)	28.83	22.74	95.49	2.16	3.14	
NITROGEN OXIDES (1,000 TONS)	8.86	7.71	11.07	.67	.88	
STACKS: - TOTAL NO.	4	5	1	3	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	289.00	292.50	789.00	165.00	277.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	75.00	49.00	188.00	4.80	8.30	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				36.00	52.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	1,306.00	962.00	1,370.00			
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	580.00	500.00	1,635.00	201.00	169.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	105.00	125.00	91.00	34.00	20.00	
REVENUES FROM SALE OF ASH ($1,000)	11.00	.80	.40			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	105.00	125.00	116.00	34.00	20.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	11.00	.80	.40			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MINNESOTA	R MISSISSIPPI	R ST. CROIX	R BIG SIOUX	R MINNESOTA	
AVERAGE RATE OF WITHDRAWAL (CFS)	180.00	375.00	440.00	.72	55.00	
AVERAGE RATE OF DISCHARGE (CFS)	179.90	375.00	439.70	.29	55.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.10	3.23	.30	.43	.47	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 37.00	81.00 37.00	75.00 36.00	79.00 34.00	84.00 32.00	
AT OUTFALL, SUMMER - WINTER	94.00 55.00	97.00 73.00	86.00 61.00	85.00 40.00	99.00 61.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,890.00	24,784.00	8,500.00	550.00	2,300.00	
- WINTER	1,660.00	8,322.00	3,000.00	125.00	600.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: RHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.65	17.50		2.20 3.30	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	45.00	12.50	250.00 50.00	1.80	.35	
LIME (TONS), COOLING WATER - BOILER MAKEUP				236.50	4.25	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.20		12.00	.50	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	112.50	9.00	10.00	2.40	1.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP		YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	ST	ST	
RECEIVING WATER BODY	L BLACK DOG					
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	7.70				8.60	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	103.60			1.00	91.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	2,780.00	93.00			46.50	
- ASH SETTLING	103,900.00			10.70	2,674.00	
				361.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		6 463.84			3 66.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)				3 48.00		
COMBINATIONS[21]	4 486.66		1 598.40			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952	1923 1959	1968	1948 1951	1930 1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00	18.00 20.00	16.90	14.50 15.40	16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	574.90	662.90	619.50	100.30	92.40	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	574.90	662.90	619.50	1.20	92.40	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,565.00	2,142.00	1,819.00	715.00	344.00	
COOLING PONDS ($1,000)	282.00					
COOLING TOWERS ($1,000)			1,633.00	308.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	35.00	15.00	63.00	55.00	10.00	
COST OF CHEMICAL ADDITIVES ($1,000)	20.00	2.00	50.00	14.00	.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.00	12.00	13.00	18.00	1.40	
COST OF CHEMICAL ADDITIVES ($1,000)	20.00	7.00	40.00	1.00	1.20	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO.	NORTHERN STATES POWER CO. (MINN.)	1
2							2
3							3
4	NAME OF PLANT	RIVERSIDE	SOUTHEAST	WILMARTH	MONTICELLO	PATHFINDER	4
5	UTILITY-PLANT CODE	347000-2700	347000-3000	347000-3600	347000-4900	347000-5250	5
6	STATE	MINNESOTA	MINNESOTA	MINNESOTA	MINNESOTA	SOUTH DAKOTA	6
7	COUNTY	HENNEPIN	HENNEPIN	BLUE EARTH	WRIGHT	MINNEHAHA	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	131 07	131 07	128 07	127 21	087 10	8
9	PLANT CAPACITY (MW)	455.85	30.00	25.00	568.80	75.00	9
10	ANNUAL GENERATION (MWH) 3/	1,894,900	28,800	114,200	3,556,600	188,700	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11,239	16,528	14,232		13,830	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	889.99		38.26			12
13	AVERAGE HEAT CONTENT (BTU/LB)	9,129		9,347			13
14	AVERAGE SULFUR CONTENT (%)	1.20		1.60			14
15	AVERAGE ASH CONTENT (%)	8.70		10.97			15
16	AVERAGE MOISTURE CONTENT (%)	23.20		22.76			16
17	OIL: CONSUMPTION (1,000 BARRELS)	105.28	43.31			249.10	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,611	138,000			151,800	18
19	AVERAGE SULFUR CONTENT (%)	.50	.50			1.30	19
20	GAS: CONSUMPTION (1,000 MCF)	4,466.83	284.67	912.25		1,020.27	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	992	992	1,005		1,002	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	18	3	2		3	22
23	- NO. OF WET BOTTOM	1					23
24	- NO. WITH FLY ASH REINJECTION	1		2			24
25	- NO. WITH MECHANICAL PRECIPITATORS	5		2			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3					26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 30.00	30.00	35.00		15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	94.00		94.00			30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			94.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00					33
34	TESTED, LOW - HIGH	97.00 99.00					34
35	EST., LOW - HIGH	95.00					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.61	.01	.42		.04	39
40	SULFUR DIOXIDE (1,000 TONS)	21.11	.07	1.20		.17	40
41	NITROGEN OXIDES (1,000 TONS)	22.99	.15	.46		.75	41
42	STACKS: - TOTAL NO.	9	2	2		1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	253.00	225.00	158.50		150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	76.00		4.30			45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	158.40		17.10			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,002.00					51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	676.00	25.00	117.00		83.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	176.00		13.00			55
56	REVENUES FROM SALE OF ASH ($1,000)	5.00					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	176.00		13.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.00					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI		R MINNESOTA		P MISSISSIPPI	P BIG STOUX	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	345.00	15.00	35.00		400.00	1.09	62
63	AVERAGE RATE OF DISCHARGE (CFS)	345.00	15.00	35.00		395.00	.52	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.97	.13	.30		5.00	.57	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC		AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 37.00	83.00 37.00	85.00 32.00		79.00 32.00	73.00 34.00	66
67	AT OUTFALL, SUMMER - WINTER	95.00 75.00	93.00 50.00	105.00 57.00		95.00 80.00	80.00 40.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	24,000.00	24,000.00	3,240.00		16,786.00	800.00	68
69	- WINTER	7,200.00	7,200.00	1,350.00		3,976.00	275.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.50	1.00	.22			.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.25	.01	.06		16.00	51.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			1.33			202.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			.20			64.00	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.50		2.00		123.00	4.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES			YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	ST		ST	ST	77
78	RECEIVING WATER BODY			O OPAIN FIELD				78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	4,204.27	110.00	1.30			53.00	81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	8 518.36	2 30.00	2 25.00				83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)					1 75.00		86
87	COMBINATION 21/				1 568.80			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1914 1964	1917 1946	1948 1951	1971	1962		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00 18.40	15.00	18.00	28.00	16.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	911.50	108.00	51.20	645.00	133.10		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	911.50	108.00	51.20	645.00	1.35		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,164.00	49.00	390.00	5,529.00	1,622.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				2,660.00	570.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	90.00	2.50	24.00	300.00	75.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.00		.30	25.00	28.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	11.00	20.00	50.00	25.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	50.00	1.00	.50	25.00	1.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	1
2							2
3							3
4	NAME OF PLANT	EDGEWATER	GORGE STEAM	MAD RIVER	NILES	BURGER	4
5	UTILITY-PLANT CODE	354500-0100	354500-0200	354500-0300	354500-0400	354500-0500	5
6	STATE	OHIO	OHIO	OHIO	OHIO	OHIO	6
7	COUNTY	LORAIN	SUMMIT	CLARK	TRUMBULL	BELMONT	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	174 04	174 04	173 05	178 05	181 05	8
9	PLANT CAPACITY (MW)	192.87	87.50	75.00	250.00	544.00	9
10	ANNUAL GENERATION (MWH) [3]	722,700	442,700	208,800	1,401,400	2,641,900	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11,532	12,261	14,673	10,324	10,828	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	337.80	245.50	130.10	651.20	1,243.30	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,249	11,038	11,745	11,103	11,493	13
14	AVERAGE SULFUR CONTENT (%)	2.60	3.57	1.47	3.20	3.13	14
15	AVERAGE ASH CONTENT (%)	10.76	14.38	11.75	14.62	13.41	15
16	AVERAGE MOISTURE CONTENT (%)	6.01	6.19	8.05	8.17	7.12	16
17	OIL: CONSUMPTION (1,000 BARRELS)						17
18	AVERAGE HEAT CONTENT (BTU/GAL)						18
19	AVERAGE SULFUR CONTENT (%)						19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	2	4	2	8	22
23	- NO. OF WET BOTTOM				2		23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	2		4	2	1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3				6	26
27	- NO. WITH COMBINATION PRECIPITATORS [4]		2			2	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 27.00	25.00 30.00	18.00 22.00	10.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		55.00 80.00	70.00	80.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			55.00 80.00	70.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.00 99.00	98.00			97.00 99.00	33
34	TESTED, LOW - HIGH		89.20			98.80 99.50	34
35	EST., LOW - HIGH	98.00 99.20	98.00			97.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.49	1.89	3.05	2.85	3.12	39
40	SULFUR DIOXIDE (1,000 TONS)	17.21	17.32	3.82	40.84	75.55	40
41	NITROGEN OXIDES (1,000 TONS)	3.04	2.21	1.13	17.91	11.19	41
42	STACKS: - TOTAL NO.	2	2	3	2	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	254.00 280.00	275.00	130.00 275.00	300.00	245.00 650.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	35.90	34.70	12.90	92.30	112.60	45
46	SOLD (1,000 TONS) [11]	6.80			72.40	17.20	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	68.00		37.00	172.00	23.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,323.00				8,530.00	51
52	COMBINATION PRECIPITATORS ($1,000) [4]		1,071.00			724.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	93.00	47.00	25.00	104.00	4,327.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	96.80	66.30	38.50	152.20	499.50	55
56	REVENUES FROM SALE OF ASH ($1,000)	4.30			16.20	8.70	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	96.80	67.70	38.50	192.20	500.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	4.30			16.20	8.70	60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ERIE	R CUYAHOGA	R MAD	R MAHONING	R OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	126.80	109.20	37.50	224.70	533.40	62
63	AVERAGE RATE OF DISCHARGE (CFS)	126.80	109.20	37.50	224.70	533.40	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.09	.94	.32	1.93	4.59	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 56.00	82.00 43.00	74.00 48.00	80.00 44.00	83.00 44.00	66
67	AT OUTFALL, SUMMER - WINTER	103.00 82.00	97.00 67.00	87.00 57.00	98.00 77.00	109.00 70.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		342.70	339.00	883.00	60,500.00	68
69	- WINTER		691.00	902.00	1,662.00	103,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]						70
71	CHEMICAL ADDITIVES: RHODAMATE (TONS), COOLING WATER - BOILER MAKEUP	.15	.47				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	42.47	10.00		51.15	16.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			7.00			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			.50		.25	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	8.00	18.00	.45	22.00	8.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT [18]	ST/RS	ST	ST	ST	ST	77
78	RECEIVING WATER BODY	O LEACHING FIELD	O CUYAHOGA		O MAHONING	O OHIO	78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.27			7.10	10.16	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	166.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 192.87	2 87.50	3 75.00	2 250.00	5 544.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWER(S)						86
87	COMBINATIONS [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1957	1943 1948	1927 1949	1954	1944 1955	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	16.00 17.00	15.00	15.00	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	325.30	196.06	172.80	312.00	809.30	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	325.30	196.06	172.80	312.00	809.30	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,519.60	182.60	24.10	554.60	4,736.40	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.60	45.40	51.60	61.60	176.70	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.80	1.90	.20	2.40	1.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	12.70	1.70	7.20	31.40	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	5.40	4.90	1.10	6.70	28.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO	OHIO POWER CO.	OHIO POWER CO.	1
2							2
3							3
4	NAME OF PLANT	TORONTO	SAMMIS	NORWALK	KAMMER	MUSKINGUM	4
5	UTILITY-PLANT CODE	354500-0600	354500-0700	354500-0800	355000-0100	355000-0200	5
6	STATE	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO	6
7	COUNTY	JEFFERSON	JEFFERSON	HURON	MARSHALL	MORGAN	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	181 05	181 05	180 04	181 05	179 05	8
9	PLANT CAPACITY (MW)	175.75	2,303.50	31.33	712.50	1,529.60	9
10	ANNUAL GENERATION (MWH)[3]	685,900	12,735,300	51,200	3,961,000	8,962,800	10
11	PLANT HEAT RATE (BTU/KWH)[3]	14,077	9,449	17,932	9,989	9,404	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	433.30	5,241.30	38.50	1,657.60	4,661.50	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,122	11,472	11,924	11,940	12,226	13
14	AVERAGE SULFUR CONTENT (%)	2.56	2.57	2.55	4.61	5.06	14
15	AVERAGE ASH CONTENT (%)	16.86	14.46	9.85	12.51	19.72	15
16	AVERAGE MOISTURE CONTENT (%)	6.33	6.49	7.45	6.96	6.86	16
17	OIL: CONSUMPTION (1,000 BARRELS)				2.90	35.40	17
18	AVERAGE HEAT CONTENT (BTU/GAL)				136,612	136,550	18
19	AVERAGE SULFUR CONTENT (%)				.10	.10	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	10	7	5	3	5	22
23	- NO. OF WET BOTTOM	8			3	4	23
24	- NO. WITH FLY ASH REINJECTION			1	3		24
25	- NO. WITH MECHANICAL PRECIPITATORS	10		1	3	2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	6	1			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]					1	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00 30.00	10.00 20.00	10.00 36.00	20.00	15.00 20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00 91.10		88.00	66.00	60.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			88.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00	97.00 99.00	90.00		96.80	33
34	TESTED, LOW - HIGH		75.50 95.50			88.10 99.70	34
35	EST., LOW - HIGH	99.00	75.00 97.00	98.00		67.50 99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.99	99.55	.28	4.43	91.45	39
40	SULFUR OIOXIDE (1,000 TONS)	20.38	256.86	1.96	126.03	404.19	40
41	NITROGEN OXIDES (1,000 TONS)	4.45	47.17	.33	44.80	67.11	41
42	STACKS: - TOTAL NO.	9	4	4	2	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	131.00 650.00	504.00 1,000.00	47.50 180.00	600.00	298.00 625.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	73.20	765.20	4.00	208.44	705.30	45
46	SOLD (1,000 TONS)[11]		52.10		144.70	14.50	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	530.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,686.00	3,496.00				51
52	COMBINATION PRECIPITATORS ($1,000)[4]					1,065.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,335.00	7,604.00			1,421.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	117.10	1,056.50	22.70			55
56	REVENUES FROM SALE OF ASH ($1,000)		21.00				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	118.40	1,058.50	23.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		21.00				60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	C NORWALK	R OHIO	R MUSKINGUM	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	187.80	2,144.70	10.10	608.00	1,040.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	187.80	2,144.70	10.10	608.00	1,029.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.62	16.44		0.95	8.94 10.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.10 44.10	80.00 45.00	88.00 43.00	83.00 40.00	83.00 49.00	66
67	AT OUTFALL, SUMMER - WINTER	94.00 57.30	107.00 75.00	102.00 53.00	96.00 53.00	95.00 67.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	60,500.00	60,500.00		15,700.00	3,310.00	68
69	- WINTER	103,200.00	103,200.00		58,400.00	16,974.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CT[16]			C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.26			.55	.16	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	203.30	330.65	.20	.15	45.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	47.90			11.55	2.60	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	45.90					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	36.00	111.00		41.00	55.00 5.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD (S, ST, SW, OT)[18]	ST	ST	OS	ST	OT	77
78	RECEIVING WATER BODY	R OHIO	R OHIO		C OHIO	R MUSKINGUM	78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		7.10		6.90	6.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					25.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING				45,000.00	330,000.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 315.75	6 1,680.50		3 712.50	4 914.40	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS			5 31.33			85
86	COOLING TOWERS					1 590.80	86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1949	1959 1969	1935 1969	1958 1959	1953 1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	8.00 14.00	16.70 19.90	15.00	12.20	12.20 22.60	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	790.92	1,793.50	83.60	1,016.10	1,753.50	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH SYSTEMS (CFS)	790.92	2,567.60		1,070.00	1,365.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	346.70	12,903.30				92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					3,435.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	74.60	547.40	14.90			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.90	15.80		4.30	40.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.70	117.60	2.50			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	20.00	89.80	.40	6.06		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO VALLEY ELECTRIC COOP.	1
2							2
3							3
4	NAME OF PLANT	PHILO	TIDD	WOODCOCK	MITCHELL	KYGER CREEK	4
5	UTILITY-PLANT CODE	355000-0300	355000-0400	355000-0500	355000-0600	356000-0100	5
6	STATE	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO	6
7	COUNTY	MUSKINGUM	JEFFERSON	ALLEN	MARSHALL	GALLIA	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	183 05	181 05	177 04	181 05	103 05	8
9	PLANT CAPACITY (MW)	500.00	226.30	37.50	1,632.60	1,086.00	9
10	ANNUAL GENERATION (MWH)[3]	1,101,400	992,600	78,900	6,892,300	7,173,000	10
11	PLANT HEAT RATE (BTU/KWH)[3]	12,817	12,108	17,971	9,608	9,620	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	678.90	495.80	52.10	2,796.30	3,051.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,361	12,017	12,997	11,697	11,544	13
14	AVERAGE SULFUR CONTENT (%)	3.72	3.03	3.00	3.78	3.86	14
15	AVERAGE ASH CONTENT (%)	17.24	12.63	12.60	14.69	14.60	15
16	AVERAGE MOISTURE CONTENT (%)	8.99	5.62	7.20	5.46	6.80	16
17	OIL: CONSUMPTION (1,000 BARRELS)	8.40	18.30	11.50	162.20		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,825	138,400	139,057	136,812		18
19	AVERAGE SULFUR CONTENT (%)	.10	.10	.10	.10		19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	13	3	5	2	5	22
23	- NO. OF WET BOTTOM	1				5	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	6	3	1			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				2		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]					5	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00	20.00	18.00	17.50	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				96.50	96.10	33
34	TESTED, LOW - HIGH				98.30 98.60		34
35	EST., LOW - HIGH					96.10	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	70.86	7.95		5.14	11.37	39
40	SULFUR DIOXIDE (1,000 TONS)	47.77	29.07		192.40	433.22	40
41	NITROGEN OXIDES (1,000 TONS)	9.48	4.49	.49	25.10	45.77	41
42	STACKS: - TOTAL NO.	5	3	2	1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	90.00 182.00	247.00	165.00	1,203.00	538.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	220.00	44.00		404.20	449.00	45
46	SOLD (1,000 TONS)[11]	74.00			81.80	237.00	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				6,652.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]					2,675.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)				7,725.00	2,411.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	184.50				649.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	20.75				84.00	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	188.50				695.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	20.75				84.00	60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MUSKINGUM	R OHIO	J KAYL. QUARRY	R OHIO	R OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	975.00	401.07		100.30	1,740.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	975.00	400.98			1,740.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	8.39	3.45 .09		100.30	14.96	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	MAY MAR	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 46.00	83.00 43.00	88.00 64.00	82.40 69.80	73.00 47.00	66
67	AT OUTFALL, SUMMER - WINTER	93.00 61.00	91.00 50.00	108.00 86.00		85.40 58.90	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	7,740.00	18,859.0				68
69	- WINTER	7,740.00	108,346.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O,[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00	.04				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.50	7.00		22.30		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	33.00	5.70 .30		57.47 1.53	160.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT		PS	OT	OT	77
78	RECEIVING WATER BODY	R MUSKINGUM				- OHIO	78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.00	8.50	7.80 7.90		7.40	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00	20.00		35.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	68,000.00		144.65			81
82	- ASH SETTLING	165,000.00	4,900.00	2,000.00	280,000.00	269.83	82

COOLING FACILITY DATA

83	NO. OF CELLS AND CAPACITY (MGD): ONCE THROUGH COOLING (FRESH)	3 444.00	2 222.20			5 1,086.30	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)			5 37.50			85
86	COOLING TOWER(S)				2 1,632.60		86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1957	1945 1948	1938 1950	1971	1955	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.40 13.10	10.00	11.80	26.30	12.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	554.10	423.40	75.00	1,334.00	1,693.50	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	985.00	424.00			1,693.50	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)					2,680.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				9,692.00		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	27.60				203.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.70	.60		6.00	14.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.50				24.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	110.00	3.70	6.82	9.00	6.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	ARBUCKLE	BELLE ISLE	HORSESHOE LAKE	MUSTANG	GSAGE	4
5	UTILITY-PLANT CODE	356500-0100	356500-0200	356500-0500	356500-0600	356500-0700	5
6	STATE	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	6
7	COUNTY	MURRAY	OKLAHOMA	OKLAHOMA	CANADIAN	KAY	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	188 11	184 11	184 11	184 11	185 11	8
9	PLANT CAPACITY (MW)	73.50	55.00	916.23	509.30	40.00	9
10	ANNUAL GENERATION (MWH)[3]	261,200	67,300	4,989,500	3,111,900	97,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	12,677	15,581	9,522	14,391	15,494	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)				.76	.33	12
13	AVERAGE HEAT CONTENT (BTU/LB)				12,971	11,200	13
14	AVERAGE SULFUR CONTENT (%)				1.30	2.10	14
15	AVERAGE ASH CONTENT (%)				10.00	11.00	15
16	AVERAGE MOISTURE CONTENT (%)				10.50	9.10	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1.09		24.14			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,748		147,427			18
19	AVERAGE SULFUR CONTENT (%)	.10		.10			19
20	GAS: CONSUMPTION (1,000 MCF)	3,187.45	993.93	45,766.18	21,161.31	1,443.57	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,037	1,055	1,031	1,037	1,037	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	1	3	9	4	3	22
23	- NO. OF WET BOTTOM			1	2	2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00	10.00	7.00 16.00	7.00 16.00	7.00 15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			.01	.05	.02	39
40	SULFUR DIOXIDE (1,000 TONS)				.02	.01	40
41	NITROGEN OXIDES (1,000 TONS)	.62	.14	9.05	6.09	.29	41
42	STACKS: - TOTAL NO.	1	1	8	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	140.00	275.50	168.00 169.00	167.00 250.00	154.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	16.70	18.00	332.20	277.50	24.30	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	D LOCAL RUNOFF	C NORTH CANADIAN	M	F ARKANSAS	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.89	10.27	26.58	6.26	62.80	62
63	AVERAGE RATE OF DISCHARGE (CFS)	.20	9.12	19.55	1.79	62.80	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.69	1.15	7.03	4.47	.54 .11	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 80.00			90.00 82.00	96.00 51.00	66
67	AT OUTFALL, SUMMER - WINTER	90.00 80.00	93.00 59.00	97.00 67.00	90.00 82.00	111.00 59.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		16.17	121.00		2,480.00	68
69	- WINTER		.36	110.00		3,090.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP						71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.55		186.20	27.63		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	1.00	1.50				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.83 .94		30.43	24.60		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					2 40.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWERS(S)	73.50		1 442.80	4 509.30		86
87	COMBINATIONS[21]		2 55.00	3 473.43			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953	1930	1924 1969	1950 1955	1929 1948	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.00	15.00	13.00 19.00	15.50 22.50	12.30 15.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	134.00	141.20	1,314.80	583.60	91.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					91.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)					69.50	92
93	COOLING PONDS ($1,000)		179.40	2,117.00			93
94	COOLING TOWERS ($1,000)	740.00	66.40	1,926.00	4,125.60		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.40	.50	7.83	80.70	41.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	12.50		35.69	62.60		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.60	1.00	10.50	7.40	10.40	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.50	.40	27.84	3.00	.60	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS AND ELECTRIC CO.	OMAHA PUBLIC POWER DIST.	OMAHA PUBLIC POWER DIST.	CITY OF OPELOUSAS	
NAME OF PLANT	MUSKOGEE	SEMINOLE	JONES STREET	NORTH OMAHA	OPELOUSAS #2	
UTILITY-PLANT CODE	356500-0800	356500-1100	357000-0100	357000-0200	358500-0200	
STATE	OKLAHOMA	OKLAHOMA	NEBRASKA	NEBRASKA	LOUISIANA	
COUNTY	MUSKOGEE	SEMINOLE	DOUGLAS	DOUGLAS	ST. LANDRY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	186 11	188 11	085 10	085 10	106 08	
PLANT CAPACITY (MW)	195.90	567.00	173.50	644.70	38.00	
ANNUAL GENERATION (MWH)[3]	1,162,200	2,837,200	116,400	3,294,600	92,900	
PLANT HEAT RATE (BTU/KWH)[3]	10,556	9,572	16,567	10,065	14,563	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			29.30	743.10		
AVERAGE HEAT CONTENT (BTU/LB)			11,696	11,150		
AVERAGE SULFUR CONTENT (%)			2.83	2.13		
AVERAGE ASH CONTENT (%)			11.54	9.86		
AVERAGE MOISTURE CONTENT (%)			8.43	11.19		
OIL: CONSUMPTION (1,000 BARRELS)	.16	5.42	55.50			
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	137,611	137,340			
AVERAGE SULFUR CONTENT (%)	.10	.10	.10			
GAS: CONSUMPTION (1,000 MCF)	11,829.62	26,158.80	922.00	16,574.03	1,313.50	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,037	1,037	1,001	1,001	1,030	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7	1	8	5	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			3			
- NO. WITH ELECTROSTATIC PRECIPITATORS				2		
- NO. WITH COMBINATION PRECIPITATORS[4]				3		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00 20.00	6.00	25.00 40.00	20.00 25.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH			85.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				96.00 98.00		
TESTED, LOW - HIGH				95.60 96.10		
EST., LOW - HIGH				96.00 98.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			1.24	2.10		
SULFUR DIOXIDE (1,000 TONS)			1.63	30.59		
NITROGEN OXIDES (1,000 TONS)	2.31	5.11	.52	9.92	.26	
STACKS: - TOTAL NO.	3	2	5	5	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	176.00 268.00	178.00	147.00 250.00	200.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]			2.70	71.00		
SOLD (1,000 TONS)[11]				16.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			148.50			
ELECTROSTATIC PRECIPITATORS ($1,000)				647.00		
COMBINATION PRECIPITATORS ($1,000)[4]				776.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	187.10	121.00	210.90	494.90	26.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			20.14	73.23		
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			20.15	73.23		
TOTAL BYPRODUCT SALES REVENUES ($1,000)				1.60		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	A ARKANSAS	R SOUTH CANADIAN	A MISSOURI	A MISSOURI	4	
AVERAGE RATE OF WITHDRAWAL (CFS)	176.33	27.50	40.94	662.40		
AVERAGE RATE OF DISCHARGE (CFS)	175.04	16.64	40.94	662.40		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.52 1.29	10.86	.35	5.87		
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG DEC	AUG DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 46.00		82.00 37.00	82.00 37.00		
AT OUTFALL, SUMMER - WINTER	106.00 70.00	86.00 49.00	101.00 63.00	100.00 61.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,860.00	112.00	50,000.00	50,000.00		
- WINTER	2,590.00	321.00	25,740.00	25,740.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			1.10	.70	.18	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	9.00	62.83	61.21	44.10	.85	
LIME (TONS), COOLING WATER - BOILER MAKEUP			68.00			
ALUM (TONS), COOLING WATER - BOILER MAKEUP		6.00				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		9.00				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT/SW	ST	PS	PS	PS	
RECEIVING WATER BODY	R ARKANSAS					
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING				9.00 10.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				50.00 100.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				424.80		
- ASH SETTLING				50,032.70		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 195.90		7 173.50	5 644.70		
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)		1 567.00				
COOLING TOWER(S)					2 38.50	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1956	1971	1917 1951	1954 1968	1965 1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 20.20	15.80	12.00 15.40	16.00 17.50	11.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	252.60	707.20	412.30	797.80	73.70	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	258.70		412.30	841.30		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,007.70		1,023.00	4,595.40		
COOLING PONDS ($1,000)		6,303.00				
COOLING TOWERS ($1,000)			88.60		125.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.70	5.60	14.27	43.63	13.00	
COST OF CHEMICAL ADDITIVES ($1,000)		1.50			5.20	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.40	16.40	25.63	32.56	75.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.40	13.20	25.02	30.38	4.80	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	ORANGE & ROCKLAND UTIL. INC.	ORANGE & ROCKLAND UTIL	ORLANDO UTILITIES COMM.	ORLANDO UTILITIES COMM.	OTTER TAIL POWER CO.
2						
3						
4	NAME OF PLANT	LOVETT	BOWLINE POINT	INDIAN RIVER	LAKE HIGHLAND	HOOT LAKE
5	UTILITY-PLANT CODE	359000-0200	359000-0700	361000-0100	361000-0200	365500-1400
6	STATE	NEW YORK	NEW YORK	FLORIDA	FLORIDA	MINNESOTA
7	COUNTY	ROCKLAND	ROCKLAND	BREVARD	ORANGE	OTTER TAIL
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 02	043 02	048 03	048 03	138 09
9	PLANT CAPACITY (MW)	495.12	621.00	258.50	96.00	136.90
10	ANNUAL GENERATION (MWH)[3]	2,788,400	1,144,900	1,412,200	291,900	831,600
11	PLANT HEAT RATE (BTU/KWH)[3]	10,949	10,712	10,344	12,983	11,919

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	.17				696.15
13	AVERAGE HEAT CONTENT (BTU/LB)	13,220				7,104
14	AVERAGE SULFUR CONTENT (%)	1.25				.95
15	AVERAGE ASH CONTENT (%)	9.50				5.90
16	AVERAGE MOISTURE CONTENT (%)	5.00				35.28
17	OIL: CONSUMPTION (1,000 BARRELS)	3,362.87	2,012.38	692.96	163.12	.88
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,484	144,691	149,388	149,494	140,000
19	AVERAGE SULFUR CONTENT (%)	.67	.37	1.68	1.60	.50
20	GAS: CONSUMPTION (1,000 MCF)	9,651.37	241.67	6,638.05	4,929.20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,032	1,033	1,041	1,042	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	1	2	4	3		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS	3						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2				3		
27	- NO. WITH COMBINATION PRECIPITATORS[4]					2		
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	25.00	7.00	8.75 12.00	14.00	26.40	17.00 40.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00					72.00 90.50
31	TESTED, LOW - HIGH							73.50
32	ESTIMATED, LOW - HIGH		85.00					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00					99.00
34	TESTED, LOW - HIGH							99.44 99.66
35	EST., LOW - HIGH		92.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH		92.00					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.34	.15	.03	.33	
40	SULFUR DIOXIDE (1,000 TONS)	7.90	2.50	4.97	.91	12.55	
41	NITROGEN OXIDES (1,000 TONS)	9.30	4.48	3.65	.93	6.24	
42	STACKS: - TOTAL NO.	5	1	1	4	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	175.00 235.00	296.00	300.00	101.50	133.00 225.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.v7			
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					35.50	
46	SOLD (1,000 TONS)[11]					7.60	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	139.12				232.40	
51	ELECTROSTATIC PRECIPITATORS ($1,000)	634.92				1,950.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	278.76	925.00	140.00	1,660.00	133.70	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					31.80	
56	REVENUES FROM SALE OF ASH ($1,000)					36.70	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					31.60	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					36.70	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O HUDSON	R HUDSON	O INDIAN	O SPRINGS/MUNGFF	R OTTER TAIL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	735.00	856.00	520.00	106.20	90.66	
63	AVERAGE RATE OF DISCHARGE (CFS)	735.00	856.00	520.00	106.20	90.64	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.32	7.36	0.47	.91	.04	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	DEC	AUG JAN	JUN JAN	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		40.00	98.00 77.00	88.00 72.00	82.00 34.00	
67	AT OUTFALL, SUMMER - WINTER		53.00	108.00 87.00	105.00 84.00	103.00 73.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	35,700.00	35,700.00			334.00	
69	- WINTER	35,700.00	35,700.00			338.30	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]		H				
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.78	.52	.14	1.63	.12	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.18	.08		.10	.66	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			6.40	5.00		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.50		.08	10.88	.34	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	ST	PS	ST	
78	RECEIVING WATER BODY	R HUDSON					
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.70				10.80	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	12.00				150.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING					4,720,003	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					3	103.75			
84	ONCE THROUGH COOLING (SALINE)	5 495.12	1 621.00	2 258.50						
85	COOLING POND(S)									
86	COOLING TOWER(S)									
87	COMBINATION[21]							3	136.90	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1969	1972	1960 1964	1949 1958	1948 1964				
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 15.50	14.90	9.58 10.88	15.00 15.70	12.00 22.00				
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	705.00	837.00	543.00	180.50	179.80				
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	734.00	856.00	543.00	180.50	180.00				

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,025.18		1,980.00	2,250.00	911.00
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)					542.00

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)			37.20	65.50	2.80
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.08		8.07	2.60	.16

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	56.81	13.45	16.00	3.70	36.02	
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.88	.49	1.46	6.00	5.38	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	OWENSBORO MUNICIPAL UTIL.	OWENSBORO MUNICIPAL UTIL.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.		
NAME OF PLANT	SMITH	OWENSBORO #1	AVON	CONTRA COSTA	HUMBOLDT BAY		
UTILITY-PLANT CODE	367000-0100	367000-0200	370000-0300	370000-1400	370000-3100		
STATE	KENTUCKY	KENTUCKY	CALIFORNIA	CALIFORNIA	CALIFORNIA		
COUNTY	DAVIESS	DAVIESS	CONTRA COSTA	CONTRA COSTA	HUMBOLDT		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	077 05	077 05	030 18	030 18	026 18		
PLANT CAPACITY (MW)	151.00	45.00	40.00	1,276.10	162.40		
ANNUAL GENERATION (MWH)[3]	1,039,800	102,900	316,600	3,992,200	247,500		
PLANT HEAT RATE (BTU/KWH)[3]	11,799	15,172	17,533	10,789	13,633		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	565.00	71.90					
AVERAGE HEAT CONTENT (BTU/LB)	10,857	10,884					
AVERAGE SULFUR CONTENT (%)	3.08	3.06					
AVERAGE ASH CONTENT (%)	10.83	10.71					
AVERAGE MOISTURE CONTENT (%)	12.54	12.51					
OIL: CONSUMPTION (1,000 BARRELS)			125.30	359.77	25.64		
AVERAGE HEAT CONTENT (BTU/GAL)			159,000	149,476	152,455		
AVERAGE SULFUR CONTENT (%)			1.80	.50	1.10		
GAS: CONSUMPTION (1,000 MCF)			4,464.11	38,794.84	3,143.47		
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,056	1,052	1,023		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	4	3	10	2		
- NO. OF WET BOTTOM	1						
- NO. WITH FLY ASH REINJECTION	1						
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS	1						
- NO. WITH COMBINATION PRECIPITATORS[4]		4					
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	16.00	20.00 22.00	10.00	5.10 15.00	15.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.00	98.00 98.50					
TESTED, LOW - HIGH	97.40						
EST., LOW - HIGH	97.00	85.00 90.00					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.20	.72	.02	.06			
SULFUR DIOXIDE (1,000 TONS)	34.33	4.37	.76	.60	.09		
NITROGEN OXIDES (1,000 TONS)	15.54	.65	1.15	6.36	.67		
STACKS: - TOTAL NO.	1	2	3	9	3		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	152.00	200.00	200.00 450.00	120.00 250.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	60.50	7.20					
SOLD (1,000 TONS)[11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)	610.00						
COMBINATION PRECIPITATORS ($1,000)[4]		245.00					
DESULFUPIZATION SYSTEMS ($1,000)							
STACKS ($1,000)		103.10	356.00	4,928.00	498.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	57.00	24.60					
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	57.00	24.60					
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O OHIO	O OHIO	B SUISUN	S SAN JOAQUIN	B HUMBOLDT		
AVERAGE RATE OF WITHDRAWAL (CFS)	136.00	82.50		1,526.00	223.00		
AVERAGE RATE OF DISCHARGE (CFS)	136.00	82.50		1,526.00	223.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.17 .71			13.12	1.92		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC		JUL OEC	JUL OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 44.00	85.00 44.00		81.00 55.00	55.00 51.00		
AT OUTFALL, SUMMER - WINTER	107.00 85.00	105.00 85.00		98.00 65.00	71.00 66.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	58,000.00	58,000.00		125,000.00			
- WINTER	314,000.00	314,000.00		125,000.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]							
CHEMICAL ADDITIVES: RHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.06	.21	2.38	2.47	.14		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.06	.08	.60	1.06	.11		
LIME (TONS), COOLING WATER - BOILER MAKEUP			80.65	3.28			
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.30			11.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	ST		
RECEIVING WATER BODY							
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.00 7.00						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	25.00 10.00						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	371.00						
- ASH SETTLING	8,670.00						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 151.00	4 52.50					
ONCE THROUGH COOLING (SALINE)				7 1,276.00	3 162.40		
COOLING PONDS(S)							
COOLING TOWER(S)			1 40.00				
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963	1939 1954	1940	1951 1964	1955 1961		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	15.00	15.00	16.00 25.00	15.00 22.90		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	181.00	93.90	43.60	1,434.20	224.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	185.00	120.00		1,434.20	224.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	768.00	296.00		3,391.00	1,539.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)			160.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.00	7.80					
COST OF CHEMICAL ADDITIVES ($1,000)	.90		.20	2.50			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	8.00					
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	.60	15.20	2.20	.10		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.
4	NAME OF PLANT	HUNTERS POINT	KERN	MARTINEZ	MORRO BAY	MOSS LANDING
5	UTILITY-PLANT CODE	370000-3200	370000-3600	370000-4100	370000-4400	370000-4500
6	STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA
7	COUNTY	SAN FRANCISCO	KERN	CONTRA COSTA	SAN LUIS OBISPO	MONTEREY
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	030 18	031 18	030 18	032 16	025 16
9	PLANT CAPACITY (MW)	406.40	165.50	40.00	1,056.30	2,174.70
10	ANNUAL GENERATION (MWH)[3]	1,514,400	3,300	334,500	4,864,200	10,552,600
11	PLANT HEAT RATE (BTU/KWH)[3]	12,013		19,384	9,611	9,290

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)	117.50		300.61	470.55	992.03	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,250		150,600	150,020	151,020	16
19	AVERAGE SULFUR CONTENT (%)	.40		1.80	.40	.40	19
20	GAS: CONSUMPTION (1,000 MCF)	16,695.57	149.66	4,339.69	39,756.52	84,761.92	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,046	1,086	1,056	1,067	1,083	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	4	3	4	10		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS[4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER)[5]	11.50 15.00	15.00	10.00	10.00 15.00	7.00 11.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.02		.05	.08	.17		39
40	SULFUR DIOXIDE (1,000 TONS)	.16		1.82	.63	1.33		40
41	NITROGEN OXIDES (1,000 TONS)	3.51	.03	1.51	6.79	18.72		41
42	STACKS: - TOTAL NO.	5	4	3	3	10		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	150.00 250.00	140.00	200.00	450.00	224.50 500.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]							45
46	SOLD (1,000 TONS)[11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000)[4]							52
53	DESULFUPIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	1,597.00	684.00	162.00	4,108.00	830.00 8,060.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]				44.00	16.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B SAN FRANCISCO	M	B SUISUN	B MORRO	B MONTEREY		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	554.00			724.00	13.70		62
63	AVERAGE RATE OF DISCHARGE (CFS)	554.00			724.00	13.70		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	4.76			6.23 .12			64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL CEC			JUL OEC	JUL OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68.00 55.00			63.00 55.00	61.00 53.00		66
67	AT OUTFALL, SUMMER - WINTER	85.00 72.00			79.00 75.00	83.00 71.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							68
69	- WINTER							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	1.05	.03	6.70	.76	1.15		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.13 1.06	.05	9.54	.03 .34	146.01		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			107.50		33.98		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	24.00 .50			1.00	35.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)							83
84	ONCE THROUGH COOLING (SALINE)	4 406.50			4 1,056.20	7 2,174.70		84
85	COOLING POND(S)							85
86	COOLING TOWER(S)		2 165.50	1 40.00				86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1928 1959	1947 1948	1941	1955 1963	1950 1968		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.50		15.00	14.50 18.10	13.70 23.80		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	709.00	179.00	43.60	1,118.00	1,849.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	582.00			1,120.00	978.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,365.00			5,986.00	12,913.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)		1,114.00	165.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)							95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.80	.20		.50	4.30		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)							97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.40	.20	19.00	2.00	40.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC POWER & LIGHT CO		
NAME OF PLANT	OLEUM	PITTSBURG	POTRERO	GEYSERS	CENTRALIA		
UTILITY-PLANT CODE	370000-4900	370000-5700	370000-5900	370000-7200	370500-0450		
STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	WASHINGTON		
COUNTY	CONTRA COSTA	CONTRA COSTA	SAN FRANCISCO	SONOMA	LEWIS		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	030 18	030 18	030 18	030 18	193 17		
PLANT CAPACITY (MW)	80.00	2,028.90	317.90	321.80	1,329.80		
ANNUAL GENERATION (MWH)[3]	139,800	6,031,100	1,434,600	1,452,700			
PLANT HEAT RATE (BTU/KWH)[3]	37,020	10,363	10,751				

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						2,002.00	
AVERAGE HEAT CONTENT (BTU/LB)						8,100	
AVERAGE SULFUR CONTENT (%)						.50	
AVERAGE ASH CONTENT (%)						14.60	
AVERAGE MOISTURE CONTENT (%)						24.80	
OIL: CONSUMPTION (1,000 BARRELS)	33.99	575.96	92.50			124.10	
AVERAGE HEAT CONTENT (BTU/GAL)	151,200	147,619	149,250			141,000	
AVERAGE SULFUR CONTENT (%)	1.80	.50	.40			.30	
GAS: CONSUMPTION (1,000 MCF)	4,696.64	55,541.31	14,202.16				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,056	1,059	1,046				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	7	4			2	
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS						2	
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00 12.00	8.00 15.00			20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						99.40	
TESTED, LOW - HIGH							
EST., LOW - HIGH						98.10	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.10	.02			4.72	
SULFUR DIOXIDE (1,000 TONS)	.21	.97	.12			19.74	
NITROGEN OXIDES (1,000 TONS)	.99	12.10	2.97			18.29	
STACKS: - TOTAL NO.	6	7	2			2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	212.00 450.00	200.00 300.00			470.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]						277.60	
SOLD (1,000 TONS)[11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)			513.00				
STACKS ($1,000)	432.00	7,210.00	795.00				
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		20.00					
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B SAN FRANCISCO	B SUISUN	B SAN FRANCISCO	W	B SKOOKUMCHUCK		
AVERAGE RATE OF WITHDRAWAL (CFS)	89.00	1,056.00	564.00		9.00		
AVERAGE RATE OF DISCHARGE (CFS)	89.00	1,058.00	564.00				
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.77	9.10	4.85		9.00		
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC				
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68.00 46.00	82.00 66.00	68.00 55.00				
AT OUTFALL, SUMMER - WINTER	71.00 52.00	98.00 80.00	85.00 72.00				
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		170,000.00					
- WINTER		170,000.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	12.84	1.88	.51		1.84		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	13.09	1.65	.31				
LIME (TONS), COOLING WATER - BOILER MAKEUP		71.00					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					7.65		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	24.00		38.00		25.84		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES		YES YES		
SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[18]	ST	PS	PS	ST	OT		
RECEIVING WATER BODY					C HANAFORO		
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		6 1,278.00					
ONCE THROUGH COOLING (SALINE)	2 80.00		3 317.90				
COOLING PONDS(S)		1 751.10					
COOLING TOWERS(S)				8 321.80	2 1,329.80		
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1943	1954 1972	1931 1964	1959 1971	1971 1972		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00	15.00 17.50	15.00	38.00 40.40	30.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	87.20	2,365.00	465.00	546.20	1,000.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	89.10	791.40	323.60				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	449.00	3,342.00	1,683.00		
COOLING PONDS ($1,000)		7,873.00			
COOLING TOWERS ($1,000)				5,746.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)					
COST OF CHEMICAL ADDITIVES ($1,000)		3.20	7.50		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)					
COST OF CHEMICAL ADDITIVES ($1,000)	16.00	7.80	.30		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	PACIFIC POWER & LIGHT CO.	PACIFIC POWER & LIGHT CO.	PASADENA LIGHT & POWER DEPT.	PASADENA LIGHT & POWER DEPT.	PENNSYLVANIA ELECTRIC CO.	
4 NAME OF PLANT	JOHNSTON	LINCOLN	BROADWAY	GLENARM	FRONT STREET	
5 UTILITY-PLANT CODE	370500-1200	370500-2300	374500-0100	374500-0200	379500-0300	
6 STATE	WYOMING	OREGON	CALIFORNIA	CALIFORNIA	PENNSYLVANIA	
7 COUNTY	CONVERSE	MULTNOMAH	LOS ANGELES	LOS ANGELES	ERIE	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	241 10	193 17	024 18	024 18	178 04	
9 PLANT CAPACITY (MW)	758.00	35.50	171.00	65.25	118.80	
10 ANNUAL GENERATION (MWH) 3/	3,283,800	4,630	650,000	65,385	571,100	
11 PLANT HEAT RATE (BTU/KWH) 3/	10,577		10,955	10,925	15,436	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	2,335.60				356.70	
13 AVERAGE HEAT CONTENT (BTU/LB)	7,406				12,299	
14 AVERAGE SULFUR CONTENT (%)	.60				2.78	
15 AVERAGE ASH CONTENT (%)	11.10				11.99	
16 AVERAGE MOISTURE CONTENT (%)	27.70				5.24	
17 OIL: CONSUMPTION (1,000 BARRELS)	12.50	104.80	672.67	11.78	7.16	
18 AVERAGE HEAT CONTENT (BTU/GAL)	138,947	137,930	150,000	150,000	138,800	
19 AVERAGE SULFUR CONTENT (%)	.30	.20	.30	.30	.30	
20 GAS: CONSUMPTION (1,000 MCF)		1,259.30	2,728.61	603.91		
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,034	1,060	1,060		

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	4	7	3	4	4	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS	4		3	4		
26 - NO. WITH ELECTROSTATIC PRECIPITATORS					4	
27 - NO. WITH COMBINATION PRECIPITATORS 4/						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	10.00 15.00	6.00 10.00	12.00 15.00	15.00 15.50	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	82.00 99.80		92.00 94.00	94.00		
31 TESTED, LOW - HIGH	82.40		37.00			
32 ESTIMATED, LOW - HIGH	75.00 99.80		50.00	50.00		
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
34 TESTED, LOW - HIGH					89.00 99.10	
35 EST., LOW - HIGH					69.00 74.00	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.32	.06		9.89	
40 SULFUR DIOXIDE (1,000 TONS)		.07	.08	.01	15.52	
41 NITROGEN OXIDES (1,000 TONS)	21.05	.48	2.02	.14	3.23	
42 STACKS: - TOTAL NO.	4	6	4	4	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	249.00 250.00	69.00 86.00	120.00 140.00	81.00 86.00	135.00 200.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	238.10				33.50	
46 SOLD (1,000 TONS) 11/	10.10					
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	10,764.00		221.00	146.00		
51 ELECTROSTATIC PRECIPITATORS ($1,000)					431.20	
52 COMBINATION PRECIPITATORS ($1,000) 4/						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	991.00	41.40	105.70	14.00	51.80	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	169.60				105.20	
56 REVENUES FROM SALE OF ASH ($1,000)	32.90					
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	121.10	176.00			123.30	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	32.90					

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P NORTH PLATTE	R WILLAMETTE	M	M	L ERIE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	272.20	93.60	2.02	.14	220.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	281.30	93.60	.41	.06	220.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.34 10.70	.80	1.61	.08	1.89	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL NOV	JUL DEC			JUN DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68.00 45.00	70.00 48.00			74.00 50.00	
67 AT OUTFALL, SUMMER - WINTER	106.00 101.00	78.00 53.00			79.00 53.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,544.00	9,750.00				
69 - WINTER	1,381.00	55,430.00				
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.37	3.31	6.40 .60	.22 .01	.54	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.27	10.41	3.34	.11	534.09	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	55.90				31.95	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00		17.05		3.24	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES YES	YES YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	PS	PS	PS	PS	
78 RECEIVING WATER BODY						
79 POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	8.70					
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00					
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING	94,600.00					

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 456.70	3 35.50			5 124.00	
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING PONDS)						
86 COOLING TOWERS)	1 330.30		3 171.00	2 65.25		
87 COMBINATIONS 21/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1972	1919 1930	1954 1965	1948	1927 1955	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	27.30 32.30	9.50 13.50	15.80 21.80	10.00	20.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	572.00	180.20	209.00	140.00	223.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	318.00	180.20			223.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	3,232.00	322.00			546.63	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)	1,650.00		662.00	161.00		

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	78.00	17.89	127.00	16.00	20.50	
96 COST OF CHEMICAL ADDITIVES ($1,000)	13.00		11.50	2.90	3.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.10	5.39	57.00	8.30	30.00	
98 COST OF CHEMICAL ACUITIES ($1,000)	24.40	6.96	6.00	.60	69.50	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	
4 NAME OF PLANT	HOMER CITY	KEYSTONE	SAXTON	SEWARD	SHAWVILLE	
5 UTILITY-PLANT CODE	379500-0350	379500-0400	379500-0800	379500-1000	379500-1100	
6 STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
7 COUNTY	INDIANA	ARMSTRONG	BEDFORD	INDIANA	CLEARFIELD	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	197 05	197 05	195 02	197 05	178 02	
9 PLANT CAPACITY (MW)	1,320.00	1,884.00	40.90	268.20	640.00	
10 ANNUAL GENERATION (MWH)[3]	5,772,000	6,436,000	48,000	1,294,700	4,100,600	
11 PLANT HEAT RATE (BTU/KWH)[3]	10,181	12,687	29,857	11,224	10,484	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	2,479.00	3,476.50	58.40	587.60	1,699.80	
13 AVERAGE HEAT CONTENT (BTU/LB)	11,732	11,663	12,270	12,076	12,598	
14 AVERAGE SULFUR CONTENT (%)	2.54	2.42	1.94	2.77	2.46	
15 AVERAGE ASH CONTENT (%)	20.08	20.26	14.85	18.55	12.00	
16 AVERAGE MOISTURE CONTENT (%)	4.17	2.57	4.84	3.63	5.46	
17 OIL: CONSUMPTION (1,000 BARRELS)	101.90	96.18		58.10	29.16	
18 AVERAGE HEAT CONTENT (BTU/GAL)	138,800	138,600		138,800	138,600	
19 AVERAGE SULFUR CONTENT (%)	.30	.30		.30	.30	
20 GAS: CONSUMPTION (1,000 MCF)						
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	2	2	1	4	4	
23 - NO. OF WET BOTTOM		2				
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS						
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	2	2				
27 - NO. WITH COMBINATION PRECIPITATORS[4]				3	4	
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00		22.00 30.00	15.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.50	99.50		99.30	98.00	
34 TESTED, LOW - HIGH	99.50	98.30		97.60 98.40	89.60 98.40	
35 EST., LOW - HIGH	99.00	93.30		97.60 98.30	89.60 98.40	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	4.21	30.58	5.55	2.10	11.10	
40 SULFUR DIOXIDE (1,000 TONS)	121.57	163.65	2.10	52.40	82.62	
41 NITROGEN OXIDES (1,000 TONS)	22.54	52.36	.45	5.43	15.36	
42 STACKS: - TOTAL NO.	2	2	1	3	3	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	800.00	801.00	125.00	168.00 238.00	325.00 600.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	492.80	751.00	1.70	107.10	193.40	
46 SOLD (1,000 TONS)[11]		51.10				
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)	1,882.00	4,531.00				
52 COMBINATION PRECIPITATORS ($1,000)[4]				2,481.00	2,150.00	
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	2,372.00	2,822.00	71.30	221.00	1,240.10	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	805.30	2,483.00	31.40	192.40	777.20	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1,113.30	2,180.00	31.40	274.40	863.20	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C TWO LICK	C OSBORNE	C KISKI JUNCTION	C CONEMAUGH	C AL. SUSQ.	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	25.00	46.00	200.50	480.00	730.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	2.20	15.00	200.40	460.00	729.70	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	22.80	29.00	.10	20.13	.30	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN DEC	JUN DEC	JUN DEC	JUN DEC	JUN DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	64.00 41.00	62.00 39.00	74.00 50.00	71.00 55.00	74.00 47.00	
67 AT OUTFALL, SUMMER - WINTER	64.00 41.00	63.00 40.00	75.00 52.00	73.00 57.00	104.00 82.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	22.30	631.00	4,108.00	3,598.00	3,090.00	
69 - WINTER	33.50	788.00	2,880.00	3,020.00	3,775.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			2.76	.55		
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	965.00	460.09	1.67	.27	889.00	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	1,445.00	2,048.83 11.76	2.63			
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP		30.81		.46	20.67	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	15.00	5.56	.29	1.20	5.14	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES YES	YES YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	UT	ST	ST	ST	ST	
78 RECEIVING WATER BODY	C TWO LICK					
79 POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				4.00		
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				27.00	15.00	
82 - ASH SETTLING				57,096.23	28,000.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 256.00		
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING PONDS						
86 COOLING TOWERS	2 1,320.00	4 1,840.00				
87 COMBINATION[21]			2 47.00		4 640.00	
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969	1967 1968	1923 1926	1938 1956	1954 1959	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	26.00	27.40	15.00	20.00	20.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,590.00	1,100.00	135.90	468.00	648.40	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)			135.90	460.00	657.40	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)						
93 COOLING PONDS ($1,000)				2,069.84	2,228.70	
94 COOLING TOWERS ($1,000)	4,954.00	12,275.00			795.20	

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	215.70	139.10	7.40	36.40	94.20	
96 COST OF CHEMICAL ADDITIVES ($1,000)	165.50	99.60	.20	1.10	7.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	205.90	86.20	14.50	17.00	90.60	
98 COST OF CHEMICAL ADDITIVES ($1,000)	180.60	96.00	2.70	3.30	121.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	
4	NAME OF PLANT	WARREN	WILLIAMSBURG	CONEMAUGH	BRUNNER ISLAND	MOLTWOOD	
5	UTILITY-PLANT CODE	379500-1200	379500-1400	379500-1500	380000-3200	380000-0700	
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
7	COUNTY	WARREN	BLAIR	INDIANA	YORK	LANCASTER	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	178 05	195 02	197 05	196 02	196 02	
9	PLANT CAPACITY (MW)	84.60	30.00	1,684.00	1,558.73	75.00	
10	ANNUAL GENERATION (MWH)[3]	465,300	189,500	8,967,300	8,305,200	585,100	
11	PLANT HEAT RATE (BTU/KWH)[3]	14,263	14,040	9,349	9,038	13,772	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	277.00	139.60	3,558.80	3,216.60	412.90	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,968	12,133	11,636	12,523	9,733	
14	AVERAGE SULFUR CONTENT (%)	2.70	1.87	2.54	2.50	.70	
15	AVERAGE ASH CONTENT (%)	12.32	14.34	10.87	13.80	20.80	
16	AVERAGE MOISTURE CONTENT (%)	6.16	6.51	5.36	4.86	15.80	
17	OIL: CONSUMPTION (1,000 BARRELS)	2.02	1.33	208.17	194.50	3.54	
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,800	138,800	136,800	137,657	137,920	
19	AVERAGE SULFUR CONTENT (%)	.30	.30	.30	.14	.26	
20	GAS: CONSUMPTION (1,000 MCF)						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	7	2	3	4	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4		2	3	3	
27	- NO. WITH COMBINATION PRECIPITATORS[6]					1	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	15.00 25.00	20.00	20.00	20.00 40.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		78.00				
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH		78.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	94.00		94.50	98.00 95.50	83.00 95.00	
34	TESTED, LOW - HIGH	80.90 94.10		96.60		97.00	
35	EST., LOW - HIGH	80.90 91.50		96.10 96.20	95.00 98.00	85.00 97.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.75	2.95	21.90	12.64	2.47	
40	SULFUR DIOXIDE (1,000 TONS)	14.71	3.82	174.54	1.72	5.66	
41	NITROGEN OXIDES (1,000 TONS)	2.51	.93	32.49	10.12	3.65	
42	STACKS: - TOTAL NO.	1	3	2	2	4	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00	76.50 122.00	1,000.00	450.00 600.00	152.00 200.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	37.70	14.80	666.90	440.10	78.60	
46	SOLD (1,000 TONS)[11]			6.50			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		34.65				
51	ELECTROSTATIC PRECIPITATORS ($1,000)	204.76		3,374.00	3,578.00	216.00	
52	COMBINATION PRECIPITATORS ($1,000)[6]					1,035.00	
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	65.20	69.49	4,274.00	1,266.00	107.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	38.70	45.10	1,707.40	550.00	112.00	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	69.70	46.10	1,370.40	550.00	151.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	A ALLEGHENY	C EAST & JUNIATA	C CONEMAUGH	C SUSQUEHANNA	C SUSQUEHANNA	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	107.00	37.50	29.70	1,080.00	187.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	106.90	37.50	7.40	1,060.00	187.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.92 .10		21.30	9.29 14.00	1.61	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN DEC	JUN DEC	JUN DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67.00 40.00	72.00 44.00	80.00 55.00	85.00 64.00	82.00 40.00	
67	AT OUTFALL, SUMMER - WINTER	67.00 40.00	89.00 76.00	80.00 55.00	126.00 116.00	100.00 67.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	8,766.00	482.00	3,598.00	12,800.00	12,800.00	
69	- WINTER	14,600.00	1,292.00	3,620.00	105,500.00	105,500.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]				C	C	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.80	.20		.25	1.12	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.04	4.74	356.00	697.37		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			2,263.00			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	1.53	.57		87.50	6.04	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.03 .90			20.00	4.50 .75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	SW ST	OT		ST	
78	RECEIVING WATER BODY[19]			B EAST & JUNIATA	C CONEMAUGH	C SUSQUEHANNA	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	6.50		7.00			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00		50.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				9,800.00	5.30	
82	- ASH SETTLING	34,158.30	3,000.00	367,164.00	175,000.00	25,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	2 80.00			3 1,558.73	3 105.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)			2 1,640.00			
87	COMBINATION[21]		3 47.50				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1949	1916 1944	1969 1970	1961 1969	1925 1954	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	13.70 20.00	27.30	24.00 29.00	12.00 19.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	131.00	69.00	1,250.00	1,159.00	224.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	131.00	69.00		1,159.00	224.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	443.90	205.10		1,755.00	489.00	
93	COOLING PONDS ($1,000)		42.80				
94	COOLING TOWERS ($1,000)			5,896.00			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.60	5.70	282.60	31.50	22.30	
96	COST OF CHEMICAL ADDITIVES ($1,000)	.60	5.80	113.40	6.00	.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.60	6.70	83.30	65.80	28.50	
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	2.30	71.80	94.78	2.00	

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER CO.		1
4	NAME OF PLANT	MARTINS CREEK	STANTON	SUNBURY	MONTOUP	NEW CASTLE		4
5	UTILITY-PLANT CODE	380000-0800	380000-0900	380000-1000	380000-1300	380500-0100		5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		6
7	COUNTY	NORTHAMPTON	LUZERNE	SNYDER	MONTOUP	LAWRENCE		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	151 02	151 02	195 02	195 02	178 05		8
9	PLANT CAPACITY (MW)	312.50	146.00	409.78	822.70	425.80		9
10	ANNUAL GENERATION (MWH)[3]	1,467,900	232,900	2,517,800	3,463,800	2,128,400		10
11	PLANT HEAT RATE (BTU/KWH)[3]	11,547	16,064	12,374	9,889	11,432		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	652.20	182.50	1,286.80	1,300.00	1,034.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,859	10,250	12,092	12,645	11,768		13
14	AVERAGE SULFUR CONTENT (%)	2.90	1.20	2.50	2.00	3.21		14
15	AVERAGE ASH CONTENT (%)	11.80	19.50	12.10	13.00	14.22		15
16	AVERAGE MOISTURE CONTENT (%)	4.80	12.50	9.50	5.70	6.35		16
17	OIL: CONSUMPTION (1,000 BARRELS)	30.21	1.17	5.79	237.80			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,837	137,792	137,413	137,625			18
19	AVERAGE SULFUR CONTENT (%)	.21	.18	.17	.14			19
20	GAS: CONSUMPTION (1,000 MCF)							20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	9	6	1	5		22
23	- NO. OF WET BOTTOM		1		1			23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS		8					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2			1	5		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]		1	6				27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00 40.00	20.00 40.00	20.00	20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH		30.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.50	95.00	96.00	99.50	95.00 98.00		33
34	TESTED, LOW - HIGH	98.00 99.00						34
35	EST., LOW - HIGH	98.00 99.00	85.00	90.00 93.00	99.00	95.00 98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.07	10.15	13.98	1.49	3.35		39
40	SULFUR DIOXIDE (1,000 TONS)	37.08	4.27	63.06	50.82	64.76		40
41	NITROGEN OXIDES (1,000 TONS)	6.08	2.12	11.91	16.38	9.29		41
42	STACKS: - TOTAL NO.	1	3	4	1	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	170.00 171.00	300.00	600.00	231.00 232.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	69.20	34.50	144.80	190.40	146.80		45
46	SOLD (1,000 TONS)[11]		16.40					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,200.00			2,388.00	1,511.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]		526.00	3,578.30				52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	232.00	29.30	337.00	1,106.00	156.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	46.00	45.00	212.00	65.50	124.00		55
56	REVENUES FROM SALE OF ASH ($1,000)		13.30					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	46.00	45.00	212.00	65.50	124.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		13.00					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P DELAWARE	R SUSQUEHANNA	R SUSQUEHANNA	R SUSQUEHANNA	D BEAVER		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	251.00	346.00	448.50	15.50	469.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	243.30	344.00	443.50	9.30	469.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.16 7.70	2.98 2.00	5.00 5.00	6.20	4.03		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	JUL OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 40.00		80.00 53.00	80.00 37.00	78.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	106.00 64.00		106.00 76.00	68.00 39.00	94.00 54.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,500.00			30.00	3,704.00		68
69	- WINTER	9,200.00			50.00	5,472.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C		F	H			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.46	.03	1.07	.02	2.05 .27		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			2.94	520.50	.47		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	.25						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	.25			18.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			10.00	15.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	ST	PS	OT	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.00				6.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	200.00				100.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	3,600.00	5,300.00	4,800.00				81
82	- ASH SETTLING	63,000.00	52,500.00	88,300.00	30,000.00	61,500.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 312.50	3 140.00	4 409.78		5 425.08		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)				1 734.00			86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1956	1927 1952	1949 1953	1971	1939 1964		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	27.00	13.00 18.00	20.00 23.00	27.60	12.50 16.70		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	266.00	335.00	458.40	504.00	629.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	266.00	134.00	458.40		629.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,247.00	1,328.00	2,600.00		1,308.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)				4,067.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.20	4.10	31.80	13.00	15.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)			1.40	2.00	13.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		1.30	3.00	43.00	74.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	.50	12.70	70.00	5.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	
NAME OF PLANT	BARBADOES	CHESTER	CROMBY	DELAWARE	EDDYSTONE	
UTILITY-PLANT CODE	384000-0100	384000-0200	384000-0300	384000-0400	384000-0500	
STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
COUNTY	MONTGOMERY	DELAWARE	CHESTER	PHILADELPHIA	DELAWARE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045 02	045 02	045 02	045 02	045 02	
PLANT CAPACITY (MW)	155.00	256.00	417.50	405.50	707.20	
ANNUAL GENERATION (MWH)[3]	857,700	630,000	2,619,700	1,729,800	4,373,500	
PLANT HEAT RATE (BTU/KWH)[3]	12,219	14,344	9,795	10,091	8,895	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			383.00		1,478.00	
AVERAGE HEAT CONTENT (BTU/LB)			13,011		13,047	
AVERAGE SULFUR CONTENT (%)			2.52		2.02	
AVERAGE ASH CONTENT (%)			9.12		8.46	
AVERAGE MOISTURE CONTENT (%)			5.13		5.38	
OIL: CONSUMPTION (1,000 BARRELS)	1,406.00	1,351.00	2,663.00	2,939.00	56.00	
AVERAGE HEAT CONTENT (BTU/GAL)	145,954	144,782	145,028	141,412	143,163	
AVERAGE SULFUR CONTENT (%)	.62	.57	.52	.64	.50	
GAS: CONSUMPTION (1,000 MCF)	1,803.00	794.00				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,033	1,036				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	14	2	4	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		2				
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]	2	2	2	2	2	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00	15.00	15.00 20.00	15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		80.00				
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	96.00	98.00	98.00	96.00	98.50	
TESTED, LOW - HIGH	94.00			96.00	98.80 99.00	
EST., LOW - HIGH	94.00	90.00	99.00	50.00 55.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.03	.29	.24	1.15	
SULFUR DIOXIDE (1,000 TONS)	2.92	7.58	22.98	6.31	56.03	
NITROGEN OXIDES (1,000 TONS)	3.45	3.13	9.65	6.46	13.43	
STACKS: - TOTAL NO.	2	3	2	5	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	330.00	192.00 195.00	300.00	160.00 200.00	248.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.20	.10		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	1.00	1.50	34.30	.90	144.00	
SOLD (1,000 TONS)[11]					31.70	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		156.00				
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]	500.00	1,056.00	900.00	650.00	1,685.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	244.00	122.00	368.00	173.00	236.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	.20	1.00	53.80		161.90	
REVENUES FROM SALE OF ASH ($1,000)					10.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	.20	1.00	53.80		161.90	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					10.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P SCHUYLKILL	P DELAWARE	P SCHUYLKILL	P DELAWARE	P DELAWARE	
AVERAGE RATE OF WITHDRAWAL (CFS)	127.00	298.60	513.40	880.00	936.00	
AVERAGE RATE OF DISCHARGE (CFS)	127.00	298.60	513.10	880.00	936.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.09	2.57	4.42 .30	7.57	8.05	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 47.00	83.00 49.00	85.00 50.00	77.00 43.00	84.00 47.00	
AT OUTFALL, SUMMER - WINTER	107.00 69.00	94.00 59.00	100.00 67.00	94.00 57.00	96.00 57.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,794.00	252,000.00	2,446.00	105,000.00	207,000.00	
- WINTER	6,961.00	252,000.00	4,363.00	105,000.00	207,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.55	.58	.45	2.30		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.05	.30				
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	42.00	32.00	94.00	130.12	255.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	OT	PS	PS	
RECEIVING WATER BODY			P SCHUYLKILL			
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.10 9.60	6.10	7.70	7.00	6.90	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	13.00 31.00	232.00	54.00	70.00	52.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	304.00	.70	7,730.00	1.43		
- ASH SETTLING	9,600.00	414.99			381,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 196.00	6 284.00	2 389.00	5 379.75	2 650.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1949	1924 1945	1954	1924 1953	1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 23.00	11.00 12.00	14.00 17.00	11.00 16.00	12.00 14.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	267.00	962.00	490.00	424.00	890.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	267.00	962.00	490.00	423.00	890.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.00	10.00	45.20	47.10	20.00	
COST OF CHEMICAL ADDITIVES ($1,000)	3.00	2.00	9.80	11.90	16.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	33.00	44.20	103.20	119.00	
COST OF CHEMICAL ADDITIVES ($1,000)	3.00	.56	.77	1.65	26.50	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PIQUA MUNICIPAL POWER PLANT	
NAME OF PLANT	PEACH BOTTOM	RICHMOND	SCHUYLKILL	SOUTHWARK	PIQUA	
UTILITY-PLANT CODE	384000-0700	384000-0900	384000-1000	384000-1100	387500-0100	
STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	OHIO	
COUNTY	YORK	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	MIAMI	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	196 02	045 02	045 02	045 02	173 05	
PLANT CAPACITY (MW)	46.00	476.75	325.40	345.00	54.60	
ANNUAL GENERATION (MWH) [3]	96,900	2,222,500	1,808,300	2,330,500	161,900	
PLANT HEAT RATE (BTU/KWH) [3]	11,744	13,062	14,451	12,426	18,488	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)					125.60	
AVERAGE HEAT CONTENT (BTU/LB)					11,916	
AVERAGE SULFUR CONTENT (%)					2.91	
AVERAGE ASH CONTENT (%)					12.27	
AVERAGE MOISTURE CONTENT (%)					2.78	
OIL: CONSUMPTION (1,000 BARRELS)		4,775.00	4,257.00	4,764.00	.40	
AVERAGE HEAT CONTENT (BTU/GAL)		144,757	146,152	144,726	140,000	
AVERAGE SULFUR CONTENT (%)		.63	.06	.65	.80	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		5	7	4	6	
- NO. OF WET BOTTOM		2				
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4	3		3	
- NO. WITH ELECTROSTATIC PRECIPITATORS		4	2			
- NO. WITH COMBINATION PRECIPITATORS [4]				4		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]		20.00 25.00	15.00	26.00	32.00 38.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00	76.00 86.00		85.00 92.00	
TESTED, LOW - HIGH		80.00 54.00				
ESTIMATED, LOW - HIGH		53.00	76.00		80.00 90.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		90.00	90.00	99.30		
TESTED, LOW - HIGH				25.80 43.50		
EST., LOW - HIGH		89.00		25.80 43.50		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.29	.15	.52	2.47	
SULFUR DIOXIDE (1,000 TONS)		9.61	10.00	11.19	7.14	
NITROGEN OXIDES (1,000 TONS)		10.53	9.39	10.50	.94	
STACKS: - TOTAL NO.		4	5	4	5	
- HEIGHT (FEET), LOWEST - HIGHEST [8]		173.00 228.00	275.00	264.00	99.50 147.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.60	.10	.30		
TOTAL ASH: COLLECTED (1,000 TONS) [10]		3.10	1.00	1.00	14.50	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF AC10 COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		496.00	221.00		35.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		539.00	167.00			
COMBINATION PRECIPITATORS ($1,000) [4]				1,575.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		119.00	222.00	176.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		1.30	.30	1.00	19.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		1.30	.30	1.00	23.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA	R DELAWARE	R SCHUYLKILL	R DELAWARE	MIAMI	
AVERAGE RATE OF WITHDRAWAL (CFS)	88.00	641.00	404.53	574.00	90.00	
AVERAGE RATE OF DISCHARGE (CFS)	88.00	641.00	404.53	574.00	90.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.76	5.51	3.48	4.94	.77	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 42.00	79.00 44.00	86.00 46.00	81.00 41.00	80.00 42.00	
AT OUTFALL, SUMMER - WINTER	99.00 42.00	92.00 57.00	106.00 81.00	96.00 46.00	92.00 53.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	60,900.00	96,000.00	3,350.00	120,000.00	85.00	
- WINTER	101,000.00	96,000.00	7,580.00	120,000.00	225.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	2.00	.60	.60	1.10	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	40.17	.05	1.00			
LIME (TONS), COOLING WATER - BOILER MAKEUP	2.75					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	7.25	20.00				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	24.08	330.00	150.00	210.00	.90 .60	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	PS	PS	PS	PS	
RECEIVING WATER BODY	R SUSQUEHANNA					
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING		6.80	10.00 7.00	11.20		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		35.00	1,000.00	700.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			1,435.00	133.15		
- ASH SETTLING			1,952.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	1 40.00		5 398.00	2 374.00	2 52.00	
ONCE THROUGH COOLING (SALINE)		4 446.00				
COOLING PONDS						
COOLING TOWERS						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1913 1914	1917 1958	1947 1946	1933 1961	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.00		15.00	13.00	9.50 16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	92.00	872.00	429.00	620.00	160.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	104.00	872.00	429.00	620.00	160.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	60.20	57.70	105.00	5.20	
COST OF CHEMICAL ADDITIVES ($1,000)	2.60	32.50	9.00	31.40	2.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.90	9.70	440.00	116.00	5.20	
COST OF CHEMICAL ADDITIVES ($1,000)	38.10	55.80	1,081.20	15.60	4.20	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	POTOMAC EDISON CO. (VA.)	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	
4	NAME OF PLANT	PIVERTON	BENNING	BUZZARD POINT	CHALK POINT	DICKERSON	
5	UTILITY-PLANT CODE	393500-0300	394500-0100	394500-0200	394500-0300	394500-0400	
6	STATE	VIRGINIA	DISTRICT OF COLUM	DISTRICT OF COLUM	MARYLAND	MARYLAND	
7	COUNTY	WARREN			PRINCE GEORGES	MONTGOMERY	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	226 02	047 02	047 02	047 02	047 02	
9	PLANT CAPACITY (MW)	34.50	843.40	305.00	727.60	586.50	
10	ANNUAL GENERATION (MWH) 3/	77,500	2,151,000	492,400	3,402,800	3,625,700	
11	PLANT HEAT RATE (BTU/KWH) 3/	14,389	12,312	13,320	9,655	9,474	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	45.20	176.47		1,297.00	1,298.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,221	13,150		12,467	12,295	
14	AVERAGE SULFUR CONTENT (%)	1.22	.85		1.66	1.80	
15	AVERAGE ASH CONTENT (%)	13.83	9.13		12.35	12.95	
16	AVERAGE MOISTURE CONTENT (%)	4.75	5.10		6.28	6.98	
17	OIL: CONSUMPTION (1,000 BARRELS)	2.50	3,556.28	1,069.22	89.00	450.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	146,230	146,047	137,774	138,347	
19	AVERAGE SULFUR CONTENT (%)	.25	.93	.92	.10	.10	
20	GAS: CONSUMPTION (1,000 MCF)						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	24	6	2	3	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	1	12	2			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1		2	3	
27	- NO. WITH COMBINATION PRECIPITATORS 4/		1	6			
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	2.00 25.00	20.00	18.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	93.00	86.40			
31	TESTED, LOW - HIGH	79.00					
32	ESTIMATED, LOW - HIGH	79.00	93.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		96.00 98.40	99.30	97.50	97.50	
34	TESTED, LOW - HIGH				98.60 99.60	95.00 98.20	
35	EST., LOW - HIGH		96.00	90.00	98.60 99.60	95.00 98.20	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.09	1.98	.02	1.19	5.56	
40	SULFUR DIOXIDE (1,000 TONS)	1.07	13.51	3.23	43.22		
41	NITROGEN OXIDES (1,000 TONS)	.41	9.17	2.36	11.67	11.61	
42	STACKS: - TOTAL NO.	1	10	3	2	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	109.00	177.30 257.00	175.25	400.00	400.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	6.13	19.30		160.30	167.10	
46	SOLD (1,000 TONS) 11/	1.63					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	207.00	154.00	168.00			
51	ELECTROSTATIC PRECIPITATORS ($1,000)		116.00		507.00	1,309.00	
52	COMBINATION PRECIPITATORS ($1,000) 4/		271.00	1,054.00			
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	27.00	459.00	81.00	805.00	931.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	6.60	85.61	40.00	633.00	790.00	
56	REVENUES FROM SALE OF ASH ($1,000)	1.63					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	6.60	85.61	40.00	1,140.00	955.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.63					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P SHENANDOAH	P ANACOSTIA	P ANACOSTIA	P PATUXENT	P POTOMAC	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	69.00	236.00	238.00	697.00	608.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	69.00	233.00	238.00	697.00	608.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.59	3.00	2.05	5.69	5.28	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00 34.00	93.00 42.00	87.00 39.00	91.00 45.00	81.00 50.00	
67	AT OUTFALL, SUMMER - WINTER	95.00 50.00	108.00 52.00	96.00 48.00	96.00 64.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	964.00					
69	- WINTER	2,050.00					
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C 16/			C			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	2.25	1.02	.38		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	3.00	84.85	2.50	414.70	76.56	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				20.00	.94	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	2.00	10.80		50.85	84.44	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.50 .50	43.00	4.50	374.15	39.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES	YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	PS	PS	OT	OT	
78	RECEIVING WATER BODY	P SHENANDOAH		P POTOMAC	P PATUXENT	P POTOMAC	
79	POND DISCHARGE 18/ PH, BOILER BLOWDOWN - ASH SETTLING						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	32,400.00					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	1 40.00	11 328.00	6 305.00		3 525.00	
84	ONCE THROUGH COOLING (SALINE)				2 730.00		
85	COOLING POND(S)						
86	COOLING TOWER(S)		2 578.00				
87	COMBINATION 21/						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949	1917 1972	1933 1945	1964	1959 1962	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	16.00	10.00 24.00	10.00	11.00	16.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	66.00	1,416.00	880.00	1,114.00	633.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	67.00	1,144.00	880.00	1,114.00	633.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	238.00	990.00	687.00	4,665.00	2,510.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		460.00				

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00	244.00	80.00	232.00	115.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	.30	15.30	.60		35.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.30	127.80	19.00	102.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.80	1.40	1.44			

SEE FOOTNOTES AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	COWLITZ COUNTY PUB UTIL DIST #1	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF NEW MEXICO		
NAME OF PLANT	POTOMAC RIVER	MORGANTOWN	LONGVIEW	PERSON	PRAGER		
UTILITY-PLANT CODE	394500-0500	394500-0600	401500-0100	403500-0100	403500-0200		
STATE	VIRGINIA	MARYLAND	WASHINGTON	NEW MEXICO	NEW MEXICO		
COUNTY	CITY OF ALEX.	CHARLES	COWLITZ	BERNALILLO	BERNALILLO		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	047 02	116 02	193 17	152 13	152 13		
PLANT CAPACITY (MW)	515.00	1,251.00	26.64	125.00	35.00		
ANNUAL GENERATION (MWH) 3/	2,510,500	6,900,500	1,000	421,100	702		
PLANT HEAT RATE (BTU/KWH) 3/	10,143	9,182	27,300	12,832	39,052		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	967.30	613.60					
AVERAGE HEAT CONTENT (BTU/LB)	13,053	12,713					
AVERAGE SULFUR CONTENT (%)	.86	2.07					
AVERAGE ASH CONTENT (%)	9.32	14.19					
AVERAGE MOISTURE CONTENT (%)	5.36	2.56					
OIL: CONSUMPTION (1,000 BARRELS)	36.50	7,640.90	4.55	89.90			
AVERAGE HEAT CONTENT (BTU/GAL)	138,137	148,248	142,857	141,306			
AVERAGE SULFUR CONTENT (%)	.12	1.92	.10	.50			
GAS: CONSUMPTION (1,000 MCF)				4,427.30	24.90		
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,102	1,099		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	1	4	5		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION		1					
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS		2					
- NO. WITH COMBINATION PRECIPITATORS 4/	5						
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00	18.00		7.00 15.00	15.00 20.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.30 99.70	99.50					
TESTED, LOW - HIGH	94.50 98.20	98.84					
EST., LOW - HIGH		99.50					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	2.22	1.52		.02			
SULFUR DIOXIDE (1,000 TONS)	16.32	24.89		.15			
NITROGEN OXIDES (1,000 TONS)	8.79	22.37	.01	12.03			
STACKS: - TOTAL NO.	5	2	2	4	5		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	141.00	700.00	300.00	66.00 68.50	49.00 67.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
TOTAL ASH: COLLECTED (1,000 TONS) 10/	90.20	87.00					
SOLD (1,000 TONS) 11/							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)		3,448.00					
COMBINATION PRECIPITATORS ($1,000) 4/	1,669.00						
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	271.00	3,123.00	250.00		17.80		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	673.00	699.60					
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	673.00	699.60					
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R POTOMAC	R POTOMAC	R COLUMBIA	W	W		
AVERAGE RATE OF WITHDRAWAL (CFS)	697.00	2,070.00		3.52			
AVERAGE RATE OF DISCHARGE (CFS)	697.00	2,070.00		1.48			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/				1.54			
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUN JAN				
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 49.00	79.90 46.20					
AT OUTFALL, SUMMER - WINTER	102.00 64.00	88.00 55.00					
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	TIDAL					
- WINTER	TIDAL	TIDAL					
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.23		3.36	8.79 .91			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	31.34	21.00	2.83	10.77			
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP	35.00						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.50	250.00		2.30			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	OT	OT	ST	ST/PS		
RECEIVING WATER BODY	R POTOMAC	R POTOMAC					
POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 514.00		5 33.30				
ONCE THROUGH COOLING (SALINE)		2 1,252.00					
COOLING PONDS							
COOLING TOWERS				4 125.00	4 35.00		
COMBINATION 21/							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1957	1970 1971	1924 1932	1951 1957	1938 1946		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.00	10.00		15.00	14.00 15.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	696.40	2,250.00	68.00	422.40	75.50		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	697.00	2,250.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)							
COOLING PONDS ($1,000)	1,611.00	10,412.00	500.00				
COOLING TOWERS ($1,000)				360.00	135.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	33.20	295.90		8.40			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	26.90	155.60	4.69 3.32	6.40			

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	
2							
3							
4	NAME OF PLANT	REEVES	ORESSEP	EDWARDSPORT	NOBLESVILLE	GALLAGHER	
5	UTILITY-PLANT CODE	403500-0300	404500-0100	404500-0200	404500-0500	404500-0600	
6	STATE	NEW MEXICO	INDIANA	INDIANA	INDIANA	INDIANA	
7	COUNTY	BERNALILLO	VIGO	KNOX	HAMILTON	FLOYD	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	152 13	084 05	084 05	080 05	078 05	
9	PLANT CAPACITY (MW)	175.00	150.00	144.25	100.00	600.00	
10	ANNUAL GENERATION (MWH)[3]	1,183,300	482,500	443,600	207,200	3,256,600	
11	PLANT HEAT RATE (BTU/KWH)[3]	11,286	14,515	13,228	12,391	10,566	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		323.00	267.00	116.00	1,588.00	
13	AVERAGE HEAT CONTENT (BTU/LB)		10,576	10,882	10,974	11,205	
14	AVERAGE SULFUR CONTENT (%)		4.10	2.60	3.19	3.78	
15	AVERAGE ASH CONTENT (%)		11.72	10.67	10.60	11.18	
16	AVERAGE MOISTURE CONTENT (%)		13.73	13.02	13.26	12.53	
17	OIL: CONSUMPTION (1,000 BARRELS)	167.50	30.10	10.90	3.70	104.10	
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,810	140,600	140,000	140,600	140,000	
19	AVERAGE SULFUR CONTENT (%)	.98	.31	.31	.31	.31	
20	GAS: CONSUMPTION (1,000 MCF)	11,176.30					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,103					

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	8	4	3	4	
23	- NO. OF WET BOTTOM		7	1			
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS			1	3		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				3	4	
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00 10.00	20.00	20.00 23.00	25.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			84.00	85.00		
31	TESTED, LOW - HIGH			82.80			
32	ESTIMATED, LOW - HIGH			70.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				98.00	99.00	
34	TESTED, LOW - HIGH				98.00 98.60	99.00	
35	EST., LOW - HIGH				98.00 98.60	99.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.03	24.57	18.67	.19	1.32	
40	SULFUR DIOXIDE (1,000 TONS)	.55	25.99	13.62		112.42	
41	NITROGEN OXIDES (1,000 TONS)	2.55	4.91	2.70	1.05	13.80	
42	STACKS: - TOTAL NO.	3	4	4	3	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	118.30	303.00	143.00	225.00	550.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		32.16	14.30	16.48	153.70	
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			40.00	90.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)					5,972.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)		164.00	50.00	111.00	715.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		54.00	40.00	31.00	128.00	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		54.00	40.00	31.00	128.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	P WABASH	P WHITE	P WHITE	P OHIO	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	3.97	160.63	115.40		517.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	.62	160.62	115.30		516.90	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.35	1.38 .02	.99 .10		4.45 .10	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG DEC	AUG DEC		AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		83.00 37.00	82.00 43.00		80.00 42.00	
67	AT OUTFALL, SUMMER - WINTER		98.00 53.00	94.00 61.00		100.00 62.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		3,796.00	1,143.00		49,240.00	
69	- WINTER		25,400.00			332,739.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	6.75 .66	2.50	.61		.45	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.51	63.42	42.15		190.31	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		23.00	9.15 1.65			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		46.00	10.00 1.80			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.56	3.00 1.35	15.00 2.25		60.52 7.48	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES		YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	SW	ST	ST	
78	RECEIVING WATER BODY		R WABASH	R WHITE			
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING		10.50	11.00	10.50	9.00 9.00	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00	5.00	5.00	5.00 50.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		597.00	650.00	19.30	2,270.00	
82	- ASH SETTLING			45,000.00		53,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		6 221.00	3 130.00	2 100.00	4 600.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)	3 175.00					
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1962	1924 1945	1943 1951	1950	1958 1961	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	16.30	10.00 12.10	12.80 15.80	15.50	18.70	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	265.00	588.00	290.20	174.80	676.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		588.00	290.20	174.80	676.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		243.00	511.00	532.00	2,462.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)	252.00			191.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		21.00	16.90		80.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.70	.50	3.30		10.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		160.00	87.50		204.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.40	18.00	12.50		25.00	

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO OF NEW HAMPSHIRE	PUBLIC SERVICE CO OF NEW HAMPSHIRE	PUBLIC SERVICE ELECTRIC & GAS CO.	
2							
3							
4	NAME OF PLANT	WABASH RIVER	CAYUGA	MERRIMACK	SCHILLER	BERGEN	
5	UTILITY-PLANT CODE	4065000-0800	4065000-0900	4065000-1100	4065000-1400	4065500-0100	
6	STATE	INDIANA	INDIANA	NEW HAMPSHIRE	NEW HAMPSHIRE	NEW JERSEY	
7	COUNTY	VIGO	VERMILLION	MERRIMACK	ROCKINGHAM	BERGEN	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	084 05	084 05	121 01	121 01	043 02	
9	PLANT CAPACITY (MW)	962.00	1,062.00	459.24	176.75	650.40	
10	ANNUAL GENERATION (MWH) 3/	4,730,500	4,582,300	2,963,600	969,900	2,927,000	
11	PLANT HEAT RATE (BTU/KWH) 3/	10,171	9,744	10,081	11,702	9,562	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,187.00	2,140.00	1,118.00			
13	AVERAGE HEAT CONTENT (BTU/LB)	10,925	10,405	13,357			
14	AVERAGE SULFUR CONTENT (%)	2.51	2.28	2.37			
15	AVERAGE ASH CONTENT (%)	10.90	13.35	7.13			
16	AVERAGE MOISTURE CONTENT (%)	13.65	14.90	4.81			
17	OIL: CONSUMPTION (1,000 BARRELS)	55.70	45.10		1,708.00	4,296.70	
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000		146,502	143,658	
19	AVERAGE SULFUR CONTENT (%)	.31	.31		1.90	.30	
20	GAS: CONSUMPTION (1,000 MCF)					1,996.30	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,033	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	2	2	5	2	
23	- NO. OF WET BOTTOM			2		2	
24	- NO. WITH FLY ASH REINJECTION	1		2			
25	- NO. WITH MECHANICAL PRECIPITATORS	3					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4	2	2			
27	- NO. WITH COMBINATION PRECIPITATORS 4/				2	2	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 24.00	20.00	16.00	12.50 20.00	15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00					
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00 98.50	99.00	90.00 92.40		98.00	
34	TESTED, LOW - HIGH			88.90 97.50			
35	EST., LOW - HIGH	98.00 98.50	97.00	83.50 85.60			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	3.41	7.31	1.39	.27	.01	
40	SULFUR DIOXIDE (1,000 TONS)	107.22	96.52	52.59	10.19	4.32	
41	NITROGEN OXIDES (1,000 TONS)	19.81	19.36	30.75	3.53	9.86	
42	STACKS: - TOTAL NO.	6	2	2	4	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	300.00	500.00	225.00 317.00	137.00 226.00	305.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				.10		
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	230.90	162.72	78.00			
46	SOLD (1,000 TONS) 11/	8.70		61.50			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	236.00					
51	ELECTROSTATIC PRECIPITATORS ($1,000)	4,487.00	2,035.00	766.00			
52	COMBINATION PRECIPITATORS ($1,000) 4/				332.00	1,898.60	
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	532.00	584.00	393.00	474.90	829.50	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	394.00	138.00	104.50			
56	REVENUES FROM SALE OF ASH ($1,000)			80.20			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	394.00	138.00	104.50	38.50		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			80.20			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P WABASH	V WABASH	- MERRIMACK	F PISCATAQUA	C OVERPECK	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,109.80	1,452.57	444.00	252.40	968.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	1,109.70	1,443.66	435.40	252.40	968.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	9.54 .10	8.91	8.60	2.17	8.32	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG OEC	AUG OEC	AUG OEC	JUL OEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 38.00	80.00 41.00	74.70 32.00	72.00 43.00	88.00 53.00	
67	AT OUTFALL, SUMMER - WINTER	90.00 57.00	101.00 78.00	75.40 33.30	89.00 72.00	99.00 64.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,850.00	3,777.00	1,190.00	17,600.00		
69	- WINTER	24,200.00	21,700.00	5,834.00	17,600.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/		C				
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.10	.65	.07	.56	1.20	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKUP	.15	42.66	55.41	41.46	151.05	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	166.75	76.55				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	33.10 2.90	15.00	21.98	7.16	660.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST	OT	ST	ST	PS	
78	RECEIVING WATER BODY		O ASH POND		R PISCATAQUA		
79	POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING	9.00 9.00	8.50			7.10	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00 50.00				4.60	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	3,500.00					
82	- ASH SETTLING	30,800.00	52,206.39			218.20	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	6 962.00	1 531.00				
84	ONCE THROUGH COOLING (SALINE)				4 178.75	2 650.00	
85	COOLING PONDS(S)						
86	COOLING TOWER(S)						
87	COMBINATION 20/		1 531.00	2 459.24			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1968	1970 1972	1960 1968	1949 1957	1959 1960	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.70 22.50	16.00	22.00 26.00	17.00 20.00	11.20	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,044.00	1,186.00	416.00	245.00	968.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,004.00	1,186.00	444.00	252.40	968.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,998.00	3,080.00	1,924.00	1,889.00	2,813.70	
93	COOLING PONDS ($1,000)			2,400.00			
94	COOLING TOWERS ($1,000)		3,227.00				

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	343.00	93.00	143.80	40.30	38.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)	9.00	2.00	2.20	2.40	44.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	331.00	173.00	49.60	65.60	93.90	
98	COST OF CHEMICAL ADDITIVES ($1,000)	27.00	10.00	15.40	9.60	19.20	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.	
4	NAME OF PLANT	BURLINGTON		ESSEX		HUDSON		KEARNY B		LINDEN	
5	UTILITY-PLANT CODE	405500-0200		405500-0300		405500-0500		405500-0800		405500-0900	
6	STATE	NEW JERSEY		NEW JERSEY		NEW JERSEY		NEW JERSEY		NEW JERSEY	
7	COUNTY	BURLINGTON		ESSEX		HUDSON		HUDSON		UNION	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045	02	043	02	043	02	043	02	043	02
9	PLANT CAPACITY (MW)	490.50		184.50		1,114.50		598.60		612.90	
10	ANNUAL GENERATION (MWH)[3]	2,376,800		352,900		2,575,000		1,422,100		2,895,356	
11	PLANT HEAT RATE (BTU/KWH)[3]	11,247		21,582		9,616		12,061		14,613	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					14.30				
13	AVERAGE HEAT CONTENT (BTU/LB)					12,752				
14	AVERAGE SULFUR CONTENT (%)					1.20				
15	AVERAGE ASH CONTENT (%)					11.60				
16	AVERAGE MOISTURE CONTENT (%)					4.90				
17	OIL: CONSUMPTION (1,000 BARRELS)	4,425.90		1,259.80		3,730.60		2,846.70		6,891.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	143,732		143,625		143,818		143,658		146,414
19	AVERAGE SULFUR CONTENT (%)	.30		.29		.33		.29		.27
20	GAS: CONSUMPTION (1,000 MCF)					4,169.70				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,032				

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6		11		2		8		5	
23	- NO. OF WET BOTTOM					1					
24	- NO. WITH FLY ASH REINJECTION										
25	- NO. WITH MECHANICAL PRECIPITATORS										
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4		3		2					
27	- NO. WITH COMBINATION PRECIPITATORS[4]	1						2			
28	- NO. WITH DESULFURIZATION SYSTEMS										
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	23.00	15.00	20.00	16.00	18.00	20.00	14.00	15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH										
31	TESTED, LOW - HIGH										
32	ESTIMATED, LOW - HIGH										
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	97.00	90.00	93.00	99.00	99.50	97.00			
34	TESTED, LOW - HIGH										
35	EST., LOW - HIGH										
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										
37	TESTED, LOW - HIGH										
38	ESTIMATED, LOW - HIGH										

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.06		.13		.81		.69		1.16	
40	SULFUR DIOXIDE (1,000 TONS)	4.45		1.27		.67		2.86		13.87	
41	NITROGEN OXIDES (1,000 TONS)	9.76		2.78		1.67		6.26		15.19	
42	STACKS: - TOTAL NO.	4		4		2		4		6	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	224.80	225.30	273.00	325.50	498.00	276.30	277.80	225.00	225.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]										
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					1.10					
46	SOLD (1,000 TONS)[11]										
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]										
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)										
51	ELECTROSTATIC PRECIPITATORS ($1,000)	390.00		316.00		2,767.30					
52	COMBINATION PRECIPITATORS ($1,000)[4]	247.00						56.00			
53	DESULFURIZATION SYSTEMS ($1,000)										
54	STACKS ($1,000)	124.50		158.90		2,019.70		320.60		609.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)										
56	REVENUES FROM SALE OF ASH ($1,000)										
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]										
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)										

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, U, M & O EXPL. IN FOOTNOTES)	D	DELAWARE	D	PASSAIC	D	HACKENSACK	D	HACKENSACK	D	ARTHUR KILL
62	AVERAGE RATE OF WITHDRAWAL (CFS)		709.00		574.00		594.00		954.00		526.00
63	AVERAGE RATE OF DISCHARGE (CFS)		709.00		574.00		594.00		954.00		528.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.10		4.94		5.11		8.20		4.54	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL	DEC	JUL	DEC	JUL	DEC	JUL	DEC	JUL	DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00	38.00	85.00	40.00	81.00	57.00	82.00	38.00	69.00	32.00
67	AT OUTFALL, SUMMER - WINTER	94.00	50.00	97.00	52.30	95.00	71.00	95.00	51.00	83.00	46.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		15,420.00			TIDAL					
69	- WINTER		25,026.00								
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]							H			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	52.00									15.35
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		228.93		6.36		354.89		55.65		3,990.44
73	LIME (TONS), COOLING WATER - BOILER MAKEUP										
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP										
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			360.00		1,045.00		97.90		445.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES		YES		YES		YES		YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT[18]	PS		PS		PS				ST	
78	RECEIVING WATER BODY										
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.50		10.50			6.90	19.30			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00		5.00			5.30	7.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		698.00		703.00				1,664.00		
82	- ASH SETTLING						130.92				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7	491.00							
84	ONCE THROUGH COOLING (SALINE)			6	293.00	2	1,114.00	8	598.00	2	520.00
85	COOLING POND(S)										
86	COOLING TOWER(S)										
87	COMBINATION[21]										
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1915	1955	1916	1947	1964	1968	1925	1953		1957
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.20	18.00	9.20	24.80	12.40	15.00	10.40	12.50	12.20	15.20
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		708.60		693.30		1,342.00		1,521.00		528.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		708.60		574.00		1,382.00		1,521.00		538.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,423.50		1,700.90		4,343.80		2,076.20		1,919.20	
93	COOLING PONDS ($1,000)										
94	COOLING TOWERS ($1,000)										

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	77.50		154.00		79.90		89.60		53.30	
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.20		16.50		61.80		6.70		28.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	78.60		51.10		161.40		65.50		234.10	
98	COST OF CHEMICAL ADDITIVES ($1,000)	24.20		6.60		53.90		17.20		359.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	
2							
3		MARION	MERCER	SEWAREN	ARAPHOE	CAMEO	
4	NAME OF PLANT	405500-1000	405500-1100	405500-1200	406000-0200	406000-0500	
5	UTILITY-PLANT CODE	NEW JERSEY	NEW JERSEY	NEW JERSEY	COLORADO	COLORADO	
6	STATE	HUDSON	MERCER	MIDDLESEX	DENVER	MESA	
7	COUNTY	043 02	045 02	043 02	036 10	035 14	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]						
9	PLANT CAPACITY (MW)	125.00	652.80	820.00	250.50	75.00	
10	ANNUAL GENERATION (MWH)[3]	541,000	2,938,600	3,594,000	1,278,100	427,400	
11	PLANT HEAT RATE (BTU/KWH)[3]	13,532	9,564	11,187	11,887	11,842	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		935.50		372.10	125.96	
13	AVERAGE HEAT CONTENT (BTU/LB)		12,921		9,718	11,702	
14	AVERAGE SULFUR CONTENT (%)		1.43		.45	.52	
15	AVERAGE ASH CONTENT (%)		10.95		7.10	9.95	
16	AVERAGE MOISTURE CONTENT (%)		6.06		19.50	6.91	
17	OIL: CONSUMPTION (1,000 BARRELS)	1,211.60		6,364.60		.03	
18	AVERAGE HEAT CONTENT (BTU/GAL)	143,924		144,370		136,317	
19	AVERAGE SULFUR CONTENT (%)	.30		.40		.19	
20	GAS: CONSUMPTION (1,000 MCF)		3,808.40	1,574.90	9,164.45	2,470.75	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,032	1,033	858	857	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	2	5	4	2	
23	- NO. OF WET BOTTOM		2				
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS				1	1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2				
27	- NO. WITH COMBINATION PRECIPITATORS[4]			4	3	1	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	15.00	15.00 20.00	26.30 28.50	23.00 25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				65.00	80.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	99.00	95.00 97.00	97.40 99.60	75.00 97.40	
34	TESTED, LOW - HIGH		99.00		90.23 94.50	98.60	
35	EST., LOW - HIGH		99.00		95.50 98.60		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.67	.43	.73	.23	
40	SULFUR DIOXIDE (1,000 TONS)	1.22	25.67	8.53	3.28	1.28	
41	NITROGEN OXIDES (1,000 TONS)	2.67	14.78	14.32	4.58	1.62	
42	STACKS: - TOTAL NO.	1	2	5	2	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	223.30	325.50	225.00 325.00	250.00	150.00 200.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		99.16		26.35	12.45	
46	SOLD (1,000 TONS)[11]		14.33				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	182.00	5,000.00		72.10	48.30	
52	COMBINATION PRECIPITATORS ($1,000)[4]			1,334.00	1,364.05	275.83	
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	22.10	583.40	782.00	193.45	113.20	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		164.00		115.42	98.03	
56	REVENUES FROM SALE OF ASH ($1,000)		10.70				
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		164.00		115.41	98.03	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		10.70				

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B HACKENSACK	C DELAWARE	D ARTHUR KILL	E W PLATTE	G U.S.B.R. CANAL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	176.00	1,056.00	1,332.00	2.84	72.72	
63	AVERAGE RATE OF DISCHARGE (CFS)	176.00	1,056.00	1,302.00	1.77	72.40	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.51	9.08	11.20	1.07	.32	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 57.00	77.00 35.00	78.00 44.00	65.00 34.00	71.00 32.00	
67	AT OUTFALL, SUMMER - WINTER	93.00 69.00	88.00 50.00	91.00 57.00	82.00 44.00	102.00 60.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	15,420.00	TIDAL		2,317.00	
69	- WINTER	TIDAL	25,026.00	TIDAL		2,262.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.25		3.89	.06	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		57.56	335.65	.06	.03	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	350.00	60.00	440.00	3.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST		PS	ST	
78	RECEIVING WATER BODY					C COLORADO	
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.50	6.90	10.50	8.80 6.80		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	4.10	5.00	420.00 4.00.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	281.00	203.65	3,150.00	28,300.00		
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		2 652.00				
84	ONCE THROUGH COOLING (SALINE)	1 125.00		5 820.00			
85	COOLING PONDS(S)						
86	COOLING TOWER(S)						
87	COMBINATIONS[21]				4 250.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941	1960	1948 1962	1950 1955	2 75.00 1957	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.30	11.20	10.90 14.70	19.70 21.30	15.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	176.00	1,056.00	1,302.00	346.00	75.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	176.00	1,056.00	1,302.00		77.80	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	283.40	2,918.40	2,873.50		555.00	
93	COOLING PONDS ($1,000)					53.00	
94	COOLING TOWERS ($1,000)				795.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	51.20	50.60	132.80	185.43	1.92	
96	COST OF CHEMICAL ADDITIVES ($1,000)	22.80	7.00	30.80	48.92		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.70	83.60	110.00	3.65	2.22	
98	COST OF CHEMICAL ADDITIVES ($1,000)		9.80	59.30	3.57	3.03	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA
4	NAME OF PLANT	CHEROKEE	VALMONT	ZUNI	NORTHEASTERN	SOUTHWESTERN
5	UTILITY-PLANT CODE	406000-0600	406000-1200	406000-1300	406300-0500	406300-0600
6	STATE	COLORADO	COLORADO	COLORADO	OKLAHOMA	OKLAHOMA
7	COUNTY	ADAMS	BOULDER	DENVER	ROGERS	CADDO
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	036 10	036 10	036 10	186 11	189 11
9	PLANT CAPACITY (MW)	801.30	281.75	115.25	642.50	483.00
10	ANNUAL GENERATION (MWH)[3]	5,148,100	1,426,000	543,700	4,335,200	3,056,700
11	PLANT HEAT RATE (BTU/KWH)[3]	10,417	10,638	16,832	9,574	10,681
	AIR QUALITY CONTROL DATA					
	FUEL CONSUMPTION DATA (ANNUAL)					
12	COAL: CONSUMPTION (1,000 TONS)	1,643.92	421.99			
13	AVERAGE HEAT CONTENT (BTU/LB)	10,905	10,379			
14	AVERAGE SULFUR CONTENT (%)	.51	.64			
15	AVERAGE ASH CONTENT (%)	8.88	6.00			
16	AVERAGE MOISTURE CONTENT (%)	10.56	13.00			
17	OIL: CONSUMPTION (1,000 BARRELS)			417.94	2.02	1.58
18	AVERAGE HEAT CONTENT (BTU/GAL)			149,500	140,315	138,075
19	AVERAGE SULFUR CONTENT (%)			1.15	.44	.33
20	GAS: CONSUMPTION (1,000 MCF)	20,900.13	7,765.16	7,607.28	35,155.00	28,470.00
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	858	826	658	1,059	1,146
	PLANT EQUIPMENT DATA					
22	BOILERS: - TOTAL NO.	4	9	3	2	4
23	- NO. OF WET BOTTOM		4			
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS			1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]	4	1	1		
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00 27.50	27.00 28.50	16.00 20.50	7.00 8.00	9.00 8.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00		
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH			75.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.10 99.30	98.10	98.10		
34	TESTED, LOW - HIGH	97.00				
35	EST., LOW - HIGH	85.30 99.30	85.70	91.30		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					
	PLANT OPERATING DATA AND COST OF EQUIPMENT					
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	11.36		.04		
40	SULFUR DIOXIDE (1,000 TONS)	14.39	5.01	1.61	.01	
41	NITROGEN OXIDES (1,000 TONS)	17.16	5.11	2.40	7.65	4.70
42	STACKS: - TOTAL NO.	3	3	3	2	4
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00 400.00	250.00 350.00	45.00 292.00	183.00	114.00 141.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.01		
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	145.99	54.49			
46	SOLD (1,000 TONS)[11]	2.21				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			89.06		
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000)[4]	2,997.28	688.46	307.90		
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	760.61	327.40	123.90		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	325.29	59.16			
56	REVENUES FROM SALE OF ASH ($1,000)	6.26				
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	325.29	59.16	8.32		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	6.26				
	WATER QUALITY CONTROL DATA					
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P PLATTE	C BOULDER	R PLATTE	L DILLON	D FT. COBB RESV
62	AVERAGE RATE OF WITHDRAWAL (CFS)	15.04	7.52	36.15	9.92	8.23
63	AVERAGE RATE OF DISCHARGE (CFS)	1.59	3.43	34.95	1.65	1.16
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	13.45	4.10	1.20	8.27	7.05
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	JUL DEC	AUG DEC	AUG DEC	AUG DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69.00 44.00		65.00 36.00	78.00 38.00	78.00 41.00
67	AT OUTFALL, SUMMER - WINTER	76.00 60.00		78.00 48.00	84.00 56.00	90.00 73.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				1,070.00	14.50
69	- WINTER				2,560.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	63.65 .73	.65	3.45 9.40	59.78 .01	27.10 1.05
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.25	.09		65.99	19.82
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			82.77	6.77	220.78 39.74
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				1.86	13.92 2.50
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	192.82 .23	.68	.05	3.40	21.94 1.22
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES YES	YES YES	YES YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	PS	OT	OT
78	RECEIVING WATER BODY		O LEECHING FIELD		C FOUR MILE	R WASHITA
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	8.50	9.50	9.40		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		750.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING	28,050.00	1,638.00			
	COOLING FACILITY DATA					
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)		5 281.75			
86	COOLING TOWER(S)	4 801.30		1 75.00	2 642.50	3 483.00
87	COMBINATION[21]			1 40.25		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1968	1924 1964	1948 1954	1961 1969	1952 1967
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 18.00	10.00	15.00 21.30	15.50 23.00	17.00 20.60
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,017.00	467.10	165.00	742.00	548.20
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			64.60		
	CAPITAL COSTS OF COOLING FACILITIES					
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			107.00		
93	COOLING PONDS ($1,000)		978.00			
94	COOLING TOWERS ($1,000)	2,185.00		482.00		
	ANNUAL COOLING WATER EXPENSES					
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	23.00	2.20	40.33		
96	COST OF CHEMICAL ADDITIVES ($1,000)	117.76	.08	18.47	62.00	28.00
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.86	1.10	12.88		
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.48	.44		14.00	8.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	
NAME OF PLANT	TULSA	WELEETKA	PALO SECO	SAN JUAN	SOUTH COAST	
UTILITY-PLANT CODE	406300-0700	406300-0800	407700-0100	407700-0200	407700-0300	
STATE	OKLAHOMA	OKLAHOMA	PUERTO RICO	PUERTO RICO	PUERTO RICO	
COUNTY	TULSA	OKFUSKEE	TOA BAJA	SAN JUAN	GUAYANILLA	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	186 11	188 11	244 23	244 23	244 23	
PLANT CAPACITY (MW)	482.00	83.00	644.80	646.10	716.90	
ANNUAL GENERATION (MWH) 3/	3,123,950	135,100	3,673,400	3,386,100	1,916,200	
PLANT HEAT RATE (BTU/KWH) 3/	10,978	15,655	10,312	11,360	16,604	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	9.65		6,027.94	6,387.19	5,050.16	
AVERAGE HEAT CONTENT (BTU/GAL)	138,000		149,615	142,085	150,004	
AVERAGE SULFUR CONTENT (%)	.40		2.40	2.40	2.15	
GAS: CONSUMPTION (1,000 MCF)	33,081.00	1,952.00				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,035	1,083				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	6	4	10	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00 15.00	10.00 15.00	12.00 15.00	12.00 12.20	12.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			1.31	1.05	.85	
SULFUR DIOXIDE (1,000 TONS)	.01		52.58	50.38	37.26	
NITROGEN OXIDES (1,000 TONS)	6.47	.38	13.29	13.80	11.14	
STACKS: - TOTAL NO.	7	3	6	11	5	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	175.00 184.00	113.00	196.00 221.60	160.00 191.00	155.00 259.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			.88			
TOTAL ASH: COLLECTED (1,000 TONS) 10/						
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						
TOTAL BYPRODUCT SALES REVENUES ($1,000)				103.32		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ARKANSAS	R NORTH CANADIAN	B SALT WATER	B SALT WATER	B SALT WATER	
AVERAGE RATE OF WITHDRAWAL (CFS)	7.02	.98	1,004.00	1,300.00	874.76	
AVERAGE RATE OF DISCHARGE (CFS)	1.67	.25	1,004.00	1,300.00	874.76	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.39	.73	8.63	11.18	7.52	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	SEP MAR	SEP MAR	SEP MAR	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 41.00	82.00 41.00	79.00 78.00	80.00 80.00	80.00 80.00	
AT OUTFALL, SUMMER - WINTER	94.00 77.00	94.00 77.00	76.00 76.00	95.00 95.00	92.00 92.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,947.00	39.90	1,004.00	1,300.00	874.76	
- WINTER		366.00	1,004.00	1,300.00	874.76	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	34.05 .34	2.88 .11	1.11	5.32	.64	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	17.57	14.44	.02	3.07	196.82	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	32.94	1.04 .57		3.34	1.27	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST				
RECEIVING WATER BODY						
POND DISCHARGE? 19/ PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)			4 565.00	10 568.00	5 663.00	
COOLING PONDS						
COOLING TOWERS	9 482.00	3 83.00				
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1958	1948 1955	1960 1970	1951 1969	1958 1972	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.50 17.00	14.50 19.00	15.00	15.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	724.80	187.20	1,005.60	1,306.00	874.80	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)			1,400.30	1,306.00	874.60	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	68.00	5.00	9.50	8.06		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	18.00	5.00	3.50	5.66		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	PUGET SOUND POWER & LIGHT CO	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	SALT R. PROJ. AGR IMPR PWR DIST	1
2							2
3							3
4	NAME OF PLANT	SHUFFLETON	ROCHESTER #3	ROCHESTER #7	ROCHESTER #13	AGUA FRIA #2	4
5	UTILITY-PLANT CODE	408000-0400	422000-0500	422000-0700	422000-0800	433000-0100	5
6	STATE	WASHINGTON	NEW YORK	NEW YORK	NEW YORK	ARIZONA	6
7	COUNTY	KING	MONROE	MONROE	WAYNE	MARICOPA	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	229 17	160 04	160 04	160 04	015 15	8
9	PLANT CAPACITY (MW)	86.00	196.20	252.60	490.00	390.00	9
10	ANNUAL GENERATION (MWH)[3]	23,900	591,300	1,380,200	2,356,100	2,271,600	10
11	PLANT HEAT RATE (BTU/KWH)[3]	14,899	18,821	10,579	10,895	9,678	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		342.17	565.58			12
13	AVERAGE HEAT CONTENT (BTU/LB)		12,880	12,835			13
14	AVERAGE SULFUR CONTENT (%)		2.09	2.00			14
15	AVERAGE ASH CONTENT (%)		9.36	9.42			15
16	AVERAGE MOISTURE CONTENT (%)		4.93	5.29			16
17	OIL: CONSUMPTION (1,000 BARRELS)	54.00	371.60	13.38		380.15	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	157,000	148,275	137,695		138,538	18
19	AVERAGE SULFUR CONTENT (%)	1.30	1.94	.40		.40	19
20	GAS: CONSUMPTION (1,000 MCF)		7.87			16,860.30	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		538			1,072	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	7	4		3	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION		3				24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		7	4			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	25.00 30.00	25.00		7.00 10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00 97.50	97.50			33
34	TESTED, LOW - HIGH		72.80 95.00	95.90 98.80			34
35	EST., LOW - HIGH		73.30 94.90	95.80 98.70			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	3.49	1.15		.66	39
40	SULFUR DIOXIDE (1,000 TONS)	.24	16.90	22.19		.43	40
41	NITROGEN OXIDES (1,000 TONS)	.12	4.05	5.12		4.52	41
42	STACKS: - TOTAL NO.	3	2	2		6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	148.00	234.00 265.00	250.00		120.00 123.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		29.70	51.80			45
46	SOLD (1,000 TONS)[11]			5.60			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		718.40	712.50			51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	150.00	188.20	291.20		264.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		91.00	161.00			55
56	REVENUES FROM SALE OF ASH ($1,000)			16.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		91.00	161.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			16.00			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L WASHINGTON	R GENESEE	L ONTARIO	L ONTARIO	O IRRIG CANAL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	5.35	145.15	250.96	802.79	18.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	5.35	143.76	250.76	802.79	7.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.05	1.25 1.37	2.16	0.90	11.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	DEC	JUL DEC	JUL DEC	JUL DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	46.00	74.00 38.00	76.00 43.00	73.00 41.00	80.00 60.00	66
67	AT OUTFALL, SUMMER - WINTER	55.00	90.00 53.00	98.00 66.00	89.00 56.00	87.00 87.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		11,598.00			5.00	68
69	- WINTER		7,191.00			2.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.50	11.05	.13	.90	23.63 .35	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		11.04	35.63	56.00	.03	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		188.50			9.03	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.68	161.92	217.00	39.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	PS	ST	ST	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		8.60	8.42			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		242.00	8.87			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		49,180.00	112,700.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20] ONCE THROUGH COOLING (FRESH)	2 87.50	10 206.20	4 252.60	1 490.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)					3 390.40	86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929	1914 1959	1949 1957	1968	1957 1961	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00	19.60 20.00	19.60	19.60	13.20 23.20	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	360.00	288.60	255.00	844.40	517.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	360.00	288.60	259.00	844.40		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	500.00	349.70	1,587.00	6,983.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					2,871.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.00	111.00	57.50	131.10	79.80	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		1.00	6.60	E.30	43.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.00	119.00	56.20	23.60	66.50	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.50	33.00	13.70	7.20	5.40	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	SALT R. PROJ. AGR IMPR PWR DIST	SALT R. PROJ. AGR IMPR PWR DIST	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	1
2						2
3						3
4 NAME OF PLANT	CROSSCUT	KYRENE	ENCINA	SILVER GATE	SOUTH BAY	4
5 UTILITY-PLANT CODE	433000-0300	433000-0600	433500-0300	433500-0500	433500-0600	5
6 STATE	ARIZONA	ARIZONA	CALIFORNIA	CALIFORNIA	CALIFORNIA	6
7 COUNTY	MARICOPA	MARICOPA	SAN DIEGO	SAN DIEGO	SAN DIEGO	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	015 15	015 15	029 18	029 18	029 18	8
9 PLANT CAPACITY (MW)	30.00	108.00	331.00	247.00	714.00	9
10 ANNUAL GENERATION (MWH)[3]	8,000	289,500	1,777,200	672,700	3,994,800	10
11 PLANT HEAT RATE (BTU/KWH)[3]	19,539	12,859	10,412	13,040	10,480	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)						12
13 AVERAGE HEAT CONTENT (BTU/LB)						13
14 AVERAGE SULFUR CONTENT (%)						14
15 AVERAGE ASH CONTENT (%)						15
16 AVERAGE MOISTURE CONTENT (%)						16
17 OIL: CONSUMPTION (1,000 BARRELS)	1.17	55.49	1,745.00	432.00	2,760.00	17
18 AVERAGE HEAT CONTENT (BTU/GAL)	149,620	139,274	148,363	149,505	149,283	18
19 AVERAGE SULFUR CONTENT (%)	.38	.30	.26	.40	.43	19
20 GAS: CONSUMPTION (1,000 MCF)	138.85	3,165.17	7,221.00	5,738.00	23,572.00	20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,074	1,077	1,057	1,056	1,055	21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	6	2	3	6	4	22
23 - NO. OF WET BOTTOM						23
24 - NO. WITH FLY ASH REINJECTION						24
25 - NO. WITH MECHANICAL PRECIPITATORS						25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS						26
27 - NO. WITH COMBINATION PRECIPITATORS[4]						27
28 - NO. WITH DESULFURIZATION SYSTEMS						28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	13.00 15.00	15.00 18.00	15.00	5.00 9.00	29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31 TESTED, LOW - HIGH						31
32 ESTIMATED, LOW - HIGH						32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH						33
34 TESTED, LOW - HIGH						34
35 EST., LOW - HIGH						35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37 TESTED, LOW - HIGH						37
38 ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[3]: PARTICULATE MATTER (1,000 TONS)		.01	.29	.07	.46	39
40 SULFUR DIOXIDE (1,000 TONS)		.06	1.76	.58	3.70	40
41 NITROGEN OXIDES (1,000 TONS)	.03	.74	5.26	2.07	10.68	41
42 STACKS: - TOTAL NO.	6	2	3	6	4	42
43 - HEIGHT (FEET), LOWEST - HIGHEST[6]	56.00	75.75 120.00	173.00	115.75 124.00	174.50	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46 SOLD (1,000 TONS)[11]						46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51 ELECTROSTATIC PRECIPITATORS ($1,000)						51
52 COMBINATION PRECIPITATORS ($1,000)[4]						52
53 DESULFURIZATION SYSTEMS ($1,000)						53
54 STACKS ($1,000)	3.33	168.30	42.00	17.00	54.00	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56 REVENUES FROM SALE OF ASH ($1,000)						56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O CANAL	O CANAL	O PACIFIC OCEAN	B SAN DIEGO	B SAN DIEGO	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	152.20		306.00	298.00	817.00	62
63 AVERAGE RATE OF DISCHARGE (CFS)	148.10		306.00	298.00	817.00	63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	4.10	2.63		2.56	7.03	64
65 PEAK LOAD MONTH : SUMMER - WINTER[6]	AUG	OEC	JUL	OEC	JUL	OEC	65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	74.00	.03	75.00	66.00	81.00	68.00	84.00	68.00	65
67 AT OUTFALL, SUMMER - WINTER	77.00		97.00	85.00	100.00	90.00	107.00	96.00	66
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER									67
69 - WINTER	450.00								68
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[15]									69
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.09	.25	.12	.15	.19	70
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	.03	.07	.02	.08	.12	.20	.01	71
73 LIME (TONS), COOLING WATER - BOILER MAKEUP		13.32		9.30					72
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP									73
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.75		56.00		48.00		91.00		74
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	YES	YES	YES	75
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	PS	PS		76
78 RECEIVING WATER BODY	O CESSPOOL						77
79 POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING							78
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							79
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							80
82 - ASH SETTLING							81

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			3 330.75	4 247.00	4 713.60	83
84 ONCE THROUGH COOLING (SALINE)						84
85 COOLING POND(S)						85
86 COOLING TOWER(S)	3 22.50					86
87 COMBINATION[21]	1 7.50	2 108.00				87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1949	1952 1954	1954 1958	1943 1952	1960 1971	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	16.00	21.00 23.60	21.90	16.00	14.00 18.30	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	116.00	149.80	320.70	332.70	866.30	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	12.60	149.80	330.60	332.70	922.80	91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)		356.92	5,271.00	1,253.00	2,965.00	92
93 COOLING PONDS ($1,000)						93
94 COOLING TOWERS ($1,000)	295.60	471.33				94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.52		168.30	68.00	187.10	95
96 COST OF CHEMICAL ADDITIVES ($1,000)	.04	3.18	6.80	7.20	12.30	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.02	28.70	42.70	33.00	75.50	97
98 COST OF CHEMICAL ADDITIVES ($1,000)	.29	2.07	5.90	.60	1.90	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	SAN DIEGO GAS & ELECTRIC CO.	SAVANNAH ELECTRIC & POWER CO.	SAVANNAH ELECTRIC & POWER CO.	SHELBY MUNICIPAL LT & POWER	SIERRA PACIFIC POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	STATION B	PORT WENTWORTH	RIVERSIDE	SHELBY	FORT CHURCHILL	4
5	UTILITY-PLANT CODE	5	433500-0700	435500-0100	435500-0200	441500-0100	443500-0400	5
6	STATE	6	CALIFORNIA	GEORGIA	GEORGIA	OHIO	NEVADA	6
7	COUNTY	7	SAN DIEGO	CHATHAM	CHATHAM	RICHLAND	LYON	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	029 18	058 03	058 03	175 05	148 16	8
9	PLANT CAPACITY (MW)	9	96.00	323.00	118.50	25.00	220.00	9
10	ANNUAL GENERATION (MWH) [3]	10	143,600	1,468,200	341,600	65,100	1,302,900	10
11	PLANT HEAT RATE (BTU/KWH) [4]	11	20,965	10,725	13,077	17,132	10,234	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12				43.60		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				12,000		13
14	AVERAGE SULFUR CONTENT (%)	14				3.10		14
15	AVERAGE ASH CONTENT (%)	15				10.00		15
16	AVERAGE MOISTURE CONTENT (%)	16				4.00		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	110.00	2,205.90	94.20		44.90	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,557	148,550	148,323		150,701	18
19	AVERAGE SULFUR CONTENT (%)	19	.40	2.30	2.30		.80	19
20	GAS: CONSUMPTION (1,000 MCF)	20	2,199.00	1,884.30	3,756.60	13.14	12,427.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,057	1,033	1,033	1,000	1,053	21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	10	4	6	4	2	22
23	- NO. OF WET BOTTOM	23		3				23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3		3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				4		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	10.00	10.00 20.00	18.00 35.00	17.00 20.00	7.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		86.10 92.50		80.00 90.00		30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32		86.10 92.50				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33				99.00		33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	.02	.04	.02	.39	.01	39
40	SULFUR OIOXIOE (1,000 TONS)	40	.15		.73	2.77	.12	40
41	NITROGEN OXIOES (1,000 TONS)	41	.67	5.27	.94	.41	2.52	41
42	STACKS: - TOTAL NO.	42	10	4	6	1	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	175.00	198.00	175.00 254.00	225.00	162.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44		.32				44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45				4.50		45
46	SOLD (1,000 TONS) [11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50		1o1.40				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				450.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	76.00	150.60	95.60	10.00	38.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		2.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59		80.66		400.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	B SAN DIEGO	B SAVANNAH	P SAVANNAH	M	R	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	104.00	274.80	154.00	.20		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	104.00	274.80	154.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.89	2.36	1.32	.20		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL OEC				AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	82.00 64.00	82.00 53.00	84.00 54.00			66
67	AT OUTFALL, SUMMER - WINTER	67	103.00 82.00	96.00 67.00	98.00 60.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		12,500.00	12,500.00			68
69	- WINTER	69		12,500.00	12,500.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) [1], COOLING WATER - BOILER MAKEUP	71	1.63	.28	.75		.34	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.06	.01	1.50		38.91	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		52.00		.08	15.77	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	PS	ST	PS	PS	ST	77
78	RECEIVING WATER BODY	78		R SAVANNAH				78
79	POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING	79		9.00 6.70				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82						82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83						83
84	ONCE THROUGH COOLING (SALINE)	84	4 93.00	3 207.00	5 118.50			84
85	COOLING POND(S)	85					2 220.00	85
86	COOLING TOWER(S)	86						86
87	COMBINATION [21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1922 1937	1957 1965	1926 1955		1968 1971	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	17.50	15.00 18.00	10.00 15.00		21.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	270.90	675.08	331.00		206.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	270.90	274.93	77.00			91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	1,126.00	1,048.70	506.60			92
93	COOLING PONDS ($1,000)	93					989.00	93
94	COOLING TOWERS ($1,000)	94				66.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	32.10	3.00	3.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		4.60	4.60		3.40	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	42.30	1.50	6.30			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	5.50	7.80	2.30	.20	8.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	SIERRA PACIFIC POWER CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.
NAME OF PLANT	TRACY	CANADYS	HAGOOD	MCMEEKIN	URQUHART
UTILITY-PLANT CODE	4435OO-1200	447500-0400	447500-0700	447500-0900	447500-1600
STATE	NEVADA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA
COUNTY	STOREY	COLLETON	CHARLESTON	LEXINGTON	AIKEN
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	148 16	058 03	199 03	200 03	053 03
PLANT CAPACITY (MW)	133.00	489.60	97.75	275.00	250.00
ANNUAL GENERATION (MWH)[3]	235,800	1,749,600	481,500	1,816,000	1,661,500
PLANT HEAT RATE (BTU/KWH)[3]	12,086	10,359	12,728	9,413	10,337

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		643.08		552.40	587.37	
AVERAGE HEAT CONTENT (BTU/LB)		12,493		12,432	12,419	
AVERAGE SULFUR CONTENT (%)		1.14		1.49	1.48	
AVERAGE ASH CONTENT (%)		12.08		11.80	12.18	
AVERAGE MOISTURE CONTENT (%)		4.91		5.06	4.64	
OIL: CONSUMPTION (1,000 BARRELS)	11.90	10.14	348.93	2.42	1.12	
AVERAGE HEAT CONTENT (BTU/GAL)	148,520	137,200	151,123	136,425	138,260	
AVERAGE SULFUR CONTENT (%)	.80	.10	2.14	.06	.17	
GAS: CONSUMPTION (1,000 MCF)	2,620.70	1,934.60	3,791.40	3,238.70	2,493.10	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,053	1,033	1,033	1,033	1,032	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	3	2	3	
- NO. OF WET BOTTOM		3		2	3	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		3				
- NO. WITH ELECTROSTATIC PRECIPITATORS		3			1	
- NO. WITH COMBINATION PRECIPITATORS[4]				2	3	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	10.00	22.50	10.00 15.00	22.50	22.50	
TESTED, LOW - HIGH		83.50 84.00			90.00	
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.60		99.90	99.60	
TESTED, LOW - HIGH					99.00 99.12	
EST., LOW - HIGH		99.60		99.90	99.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.20	.06	.04	.47	
SULFUR DIOXIDE (1,000 TONS)	.03	14.33	2.52	16.03	10.69	
NITROGEN OXIDES (1,000 TONS)	.54	10.05	1.51	8.92	9.30	
STACKS: - TOTAL NO.	2	3	2	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00	200.00	125.00	250.00	200.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]		74.71	.05	64.64	72.25	
SOLD (1,000 TONS)[11]					10.06	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		292.19			98.05	
ELECTROSTATIC PRECIPITATORS ($1,000)		1,677.04		962.60	1,196.75	
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	103.00	263.39	53.74	137.56	214.18	
REVENUES FROM SALE OF ASH ($1,000)		46.57	1.37	23.20	11.35	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					20.12	
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		46.58	1.37	23.21	11.36	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					20.12	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	Q TRUCKEE	Q EDISTO	Q ASHLEY	L MURRAY	Q SAVANNAH	
AVERAGE RATE OF WITHDRAWAL (CFS)	44.20	376.37	210.67	178.30	294.40	
AVERAGE RATE OF DISCHARGE (CFS)	44.20	376.37	210.67	177.60	294.28	
AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED[14]			1.81	1.53 .70	2.53 .12	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OCT	AUG JAN	AUG FEB	MAY MAR	AUG MAR	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 46.10	85.01 60.33	84.20 56.80	84.00 49.00	75.00 57.00	
AT OUTFALL, SUMMER - WINTER	86.60 66.30	92.00 67.00	100.50 66.10	74.00 69.00	91.00 75.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	334.00	1,467.00			6,880.00	
- WINTER	672.00	5,009.00			7,572.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.57		.19			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	23.71	263.05	19.55	46.15		
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP		27.80		20.80	67.30	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.91	10.75			12.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	OT	ST	Sw	
RECEIVING WATER BODY			P ASHLEY		P SAVANNAH	
POND DISCHARGE?[19] PH, BOILER BLOWDOWN - ASH SETTLING		5.50 5.50		7.20		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		180.00 180.00		125.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		13,000.00				
- ASH SETTLING		31,000.00		6,620.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 53.00			2 293.60	3 250.00	
ONCE THROUGH COOLING (SALINE)			3 97.76			
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1 80.00	3 489.60				
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1965	1962 1967	1947 1951	1958	1953 1955	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	28.00 38.00	19.00	19.00	20.00	24.00 26.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	126.60	499.31	201.32	252.00	290.70	
	126.60	499.31	204.99	252.00	294.40	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	118.00	886.00	37.00	140.14	182.36	
COOLING PONDS ($1,000)	339.00	1,631.25				
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			10.97		2.17	
COST OF CHEMICAL ADDITIVES ($1,000)	.30	3.17			3.73	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			4.11		21.07	
COST OF CHEMICAL ADDITIVES ($1,000)	3.00	23.40		20.43	10.84	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA PUBLIC SERVICE AUTH.	SOUTH CAROLINA PUBLIC SERVICE AUTH.	SOUTH MISSISSIPPI ELEC PWR ASSOC	SOUTHERN CALIFORNIA EDISON CO.	1
4	NAME OF PLANT	WATEREE	GRAINGER	JEFFERIES	MOSELLE	ALAMITOS	4
5	UTILITY-PLANT CODE	447500-1700	448000-0130	448000-0230	448300-0100	450500-0100	5
6	STATE	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	MISSISSIPPI	CALIFORNIA	6
7	COUNTY	RICHLAND	HORRY	BERKELEY	JONES	LOS ANGELES	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	200 03	204 03	199 03	005 03	024 18	8
9	PLANT CAPACITY (MW)	771.80	163.20	445.60	177.00	1,982.40	9
10	ANNUAL GENERATION (MWH)[3]	3,789,100	954,100	2,289,300	772,700	8,527,700	10
11	PLANT HEAT RATE (BTU/KWH)[3]	9,078	10,573	9,975	12,097	9,779	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	1,379.81	415.53	765.47			12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,314	12,136	11,866			13
14	AVERAGE SULFUR CONTENT (%)	1.42	1.10	.99			14
15	AVERAGE ASH CONTENT (%)	12.22	11.25	12.96			15
16	AVERAGE MOISTURE CONTENT (%)	5.31	6.28	7.03			16
17	OIL: CONSUMPTION (1,000 BARRELS)	71.65		753.37	284.70	6,337.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,000		147,643	140,197	145,000	18
19	AVERAGE SULFUR CONTENT (%)	.20		1.84	1.46	.40	19
20	GAS: CONSUMPTION (1,000 MCF)				7,397.60	42,124.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,037	1,056	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	2	4	3	6	22
23	- NO. OF WET BOTTOM	2	2				23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS			2		1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2	2			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	23.00	13.00 23.00	8.00	10.00 13.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00		99.50	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			80.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00	95.00	95.00			33
34	TESTED, LOW - HIGH		97.90	92.10 94.50			34
35	EST., LOW - HIGH	99.00	95.00				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.09	1.52	5.54	.35	.84	39
40	SULFUR DIOXIDE (1,000 TONS)	38.59	8.96	19.63	1.38	6.59	40
41	NITROGEN OXIDES (1,000 TONS)	20.93	6.23	3.55	2.03	22.19	41
42	STACKS: - TOTAL NO.	2	2	6	3	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	300.00	175.00 300.00	100.00	200.00 201.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	92.70	46.80	95.50			45
46	SOLD (1,000 TONS)[11]	.45					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			52.00		1,600.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,357.22	423.00	354.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	740.16	336.00	632.00		461.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	40.24	21.70	35.40			55
56	REVENUES FROM SALE OF ASH ($1,000)	.45					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	40.24	21.70	35.40		37.14	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.45					60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	° WATEREE	° WACCAMAW	° COOPER	W	O PACIFIC OCEAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	757.68	133.00	334.00	1.60	1,970.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	756.18	133.00	334.00	.90	1,970.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.50		2.87	.70	16.94	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG DEC	AUG DEC	AUG DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 49.00	86.00 66.00	87.00 55.00	68.00 68.00		66
67	AT OUTFALL, SUMMER - WINTER	86.00 65.00	90.00 72.00	101.00 72.00	98.00 71.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,200.00	183.00	14,243.00			68
69	- WINTER	11,200.00	1,462.00	23,188.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.10	.25	.34	2.00	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	507.88	50.00	120.00	.46	38.95	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	46.00		6.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.85	10.00		1.22	73.49	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	PS YES	YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS		OT	OT		77
78	RECEIVING WATER BODY	R WATEREE		R COOPER	R LEAF	R SAN GABRIEL	78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.00	6.50			9.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	120.00	80.00			250.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					1,220.00	81
82	- ASH SETTLING	82,260.39	47,000.00				82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			4 445.60			83
84	ONCE THROUGH COOLING (SALINE)					6 1,982.40	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)				3 177.00		86
87	COMBINATION[21]	2 771.80	2 163.20				87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970 1971	1966	1953 1970	1969	1956 1966	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	19.00	13.00 18.00	13.00	18.20 22.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	664.00	180.00	550.00	280.80	1,910.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	758.00	194.00	550.00		1,899.40	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	750.47	1,132.12	1,305.00		4,693.00	92
93	COOLING PONDS ($1,000)		300.00				93
94	COOLING TOWERS ($1,000)	2,972.70			300.00		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	37.92	6.29		77.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.35	2.40		7.80	48.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	14.22	30.50		80.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	36.97	7.06	15.40	.40	55.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	1
4 NAME OF PLANT	COOL WATER	EL SEGUNDO	ETIWANDA	HIGHGROVE	HUNTINGTON BEACH	4
5 UTILITY-PLANT CODE	450500-1400	450500-1500	450500-1600	450500-2000	450500-2100	5
6 STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	6
7 COUNTY	SAN BERNARDINO	LOS ANGELES	SAN BERNARDINO	SAN BERNARDINO	ORANGE	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	033 18	024 18	024 18	024 18	024 18	8
9 PLANT CAPACITY (MW)	146.00	1,020.00	911.00	169.00	870.40	9
10 ANNUAL GENERATION (MWH)[3]	1,064,300	3,949,900	4,807,100	23,500	4,619,803	10
11 PLANT HEAT RATE (BTU/KWH)[3]	10,077	9,870	9,963	15,459	9,710	11
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
12 COAL: CONSUMPTION (1,000 TONS)						12
13 AVERAGE HEAT CONTENT (BTU/LB)						13
14 AVERAGE SULFUR CONTENT (%)						14
15 AVERAGE ASH CONTENT (%)						15
16 AVERAGE MOISTURE CONTENT (%)						16
17 OIL: CONSUMPTION (1,000 BARRELS)	32.70	4,655.40	3,492.00	15.30	3,318.00	17
18 AVERAGE HEAT CONTENT (BTU/GAL)	150,000	145,406	145,292	149,000	147,100	18
19 AVERAGE SULFUR CONTENT (%)	.50	.45	.44	.39	.44	19
20 GAS: CONSUMPTION (1,000 MCF)	9,687.70	10,006.10	24,973.00	253.10	22,770.00	20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,087	1,055	1,055	1,057	1,056	21
PLANT EQUIPMENT DATA						
22 BOILERS: - TOTAL NO.	2	4	4	4	4	22
23 - NO. OF WET BOTTOM						23
24 - NO. WITH FLY ASH REINJECTION						24
25 - NO. WITH MECHANICAL PRECIPITATORS						25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS						26
27 - NO. WITH COMBINATION PRECIPITATORS[4]						27
28 - NO. WITH DESULFURIZATION SYSTEMS						28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00	10.00	10.00 16.00	17.00	15.00	29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31 TESTED, LOW - HIGH						31
32 ESTIMATED, LOW - HIGH						32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34 TESTED, LOW - HIGH						34
35 EST., LOW - HIGH						35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37 TESTED, LOW - HIGH						37
38 ESTIMATED, LOW - HIGH						38
PLANT OPERATING DATA AND COST OF EQUIPMENT						
39 EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.78	.59		.56	39
40 SULFUR DIOXIDE (1,000 TONS)	.05	7.03	5.15	.02	4.90	40
41 NITROGEN OXIDES (1,000 TONS)	1.96	12.22	12.57	.08	11.76	41
42 STACKS: - TOTAL NO.	2	4	4	4	2	42
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	134.00 146.00	200.00	176.00 199.00	70.00 99.00	203.00	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46 SOLD (1,000 TONS)[11]						46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51 ELECTROSTATIC PRECIPITATORS ($1,000)						51
52 COMBINATION PRECIPITATORS ($1,000)[4]						52
53 DESULFURIZATION SYSTEMS ($1,000)						53
54 STACKS ($1,000)	11.60	223.80	214.00	61.30	169.40	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56 REVENUES FROM SALE OF ASH ($1,000)						56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	2.80	20.96	27.03	3.47	17.49	59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
WATER QUALITY CONTROL DATA						
61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	B SANTA MONICA	M MET. AQUEDUCT	W	O SAN PEDRO CHNL	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	4.86	888.00	11.30	.62	695.00	62
63 AVERAGE RATE OF DISCHARGE (CFS)	1.73	888.00	1.80	.01	695.00	63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.15	7.64	9.50	.61	5.98	64
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		75.00 62.00			72.00 64.00	66
67 AT OUTFALL, SUMMER - WINTER		96.50 88.00			91.00 89.00	67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69 - WINTER						69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.04	.24	.22	3.05 .20	.06	71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	50.00	.01	.04	38.63	362.85	72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.30	61.86	70.00	1.46	12.54	75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES YES	YES	YES YES	YES YES	YES	76
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	PS	77
78 RECEIVING WATER BODY	O SEEPAGE PIT		O SEEPAGE PIT	O SEEPAGE PIT		78
79 POND DISCHARGE?[19] PH, BOILER BLOWDOWN - ASH SETTLING		9.50				79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		460.00				81
82 - ASH SETTLING						82
COOLING FACILITY DATA						
83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						83
84 ONCE THROUGH COOLING (SALINE)		4 996.50			4 870.40	84
85 COOLING PONDS						85
86 COOLING TOWERS	2 146.88		4 911.00	4 169.00		86
87 COMBINATION[21]						87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1961 1964	1954 1963	1953 1963	1952 1955	1958 1961	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00	22.00 23.65	19.00 21.00	15.50	23.00 24.00	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	191.40	888.00	870.00	266.00	755.00	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		888.00			755.00	91
CAPITAL COSTS OF COOLING FACILITIES						
92 ONCE THROUGH COOLING SYSTEMS ($1,000)		563.40			703.00	92
93 COOLING PONDS ($1,000)						93
94 COOLING TOWERS ($1,000)	641.80		1,592.00	866.00		94
ANNUAL COOLING WATER EXPENSES						
95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	42.00	55.00	107.30	1.50	42.00	95
96 COST OF CHEMICAL ADDITIVES ($1,000)	62.00	19.56	84.00	3.26	25.20	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97 OPERATION AND MAINTENANCE EXPENSES ($1,000)		69.11	6.00	6.50	132.00	97
98 COST OF CHEMICAL ADDITIVES ($1,000)	3.00	12.12	8.00	5.01	20.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	1
2							2
3							3
4	NAME OF PLANT	LONG BEACH	MANDALAY	REDONDO	SAN BERNARDINO	SAN ONOFRE	4
5	UTILITY-PLANT CODE	450500-2700	450500-3100	450500-3900	450500-4100	450500-4300	5
6	STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	6
7	COUNTY	LOS ANGELES	VENTURA	LOS ANGELES	SAN BERNARDINO	SAN DIEGO	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	024 18	024 18	024 18	024 18	029 18	8
9	PLANT CAPACITY (MW)	180.00	435.20	1,579.45	130.56	450.00	9
10	ANNUAL GENERATION (MWH)[3]	3,500	1,857,100	7,628,200	621,700	2,812,000	10
11	PLANT HEAT RATE (BTU/KWH)[3]	45,028	9,610	10,072	10,229	10,387	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)		768.70	2,655.91	162.80		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		148,734	145,355	145,600		18
19	AVERAGE SULFUR CONTENT (%)		.45	.34	.36		19
20	GAS: CONSUMPTION (1,000 MCF)	149.44	12,674.70	57,379.07	5,098.40		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,055	1,020	1,057	1,053		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	7	2	11	2		22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	4.00	10.00 12.50	4.75		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.13	.45	.03		39
40	SULFUR DIOXIDE (1,000 TONS)		1.16	3.03	.20		40
41	NITROGEN OXIDES (1,000 TONS)	.03	4.17	17.05	1.35		41
42	STACKS: - TOTAL NO.	4	1	8	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	247.50	200.00	200.00 201.50	130.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.03			44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	98.60	92.00	563.30	10.68		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		11.26	55.20	6.81		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PACIFIC OCEAN	O SNTA BARB CHNL	O PACIFIC OCEAN	W	S PACIFIC OCEAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	35.00	352.00	1,633.87	2.03	793.27	62
63	AVERAGE RATE OF DISCHARGE (CFS)	35.00	352.00	1,633.87	.86	793.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.30	3.03	14.05	1.17	6.82 .27	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		65.00 58.00	76.00 69.00		74.00 70.00	66
67	AT OUTFALL, SUMMER - WINTER		86.00 83.00	95.00 88.00		95.00 90.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	.24	.34	25.18 .04	2.75	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.11	.01	135.31	12.79		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		66.60	57.38	4.54	8.97	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	PS	ST	OT	77
78	RECEIVING WATER BODY	O CERRITOS CHANL	O SEEPAGE PIT			O PACIFIC OCEAN	78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING			7.50			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (),000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)	2 180.00	2 435.20	8 1,579.45		1 450.00	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)				2 130.56		86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951	1959	1948 1967	1957 1958	1966	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	23.00	20.00 22.00	16.10	18.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	712.00	384.00	1,735.20	173.00	793.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	712.00	394.00	1,733.00		793.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)		1,216.00	8,164.00		6,847.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				369.00		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.80	92.00	43.70	9.20	97.15	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		6.06	16.00	18.55	11.04	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	110.60	27.00	194.60	60.00	1.10	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.76	8.72	14.10	1.95	1.93	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN ELECTRIC GENERATING CO.	SOUTHERN INDIANA G. E. CO.	SOUTHERN INDIANA G. E. CO.	
NAME OF PLANT	MOHAVE	ORMOND BEACH	GASTON	CULLEY	OHIO RIVER	
UTILITY-PLANT CODE	450500-4500	450500-4700	451000-0100	452000-0100	452000-0300	
STATE	NEVADA	CALIFORNIA	ALABAMA	INDIANA	INDIANA	
COUNTY	CLARK	VENTURA	SHELBY	WARRICK	VANDERBURGH	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	013 16	024 18	004 03	077 05	077 05	
PLANT CAPACITY (MW)	1,520.00	806.40	1,000.00	149.70	121.50	
ANNUAL GENERATION (MWH)[3]	5,295,800	3,655,100	6,844,800	624,300	391,200	
PLANT HEAT RATE (BTU/KWH)[3]	15,110	9,410	9,462	11,464	14,369	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,905.93		2,792.00	335.80		
AVERAGE HEAT CONTENT (BTU/LB)	12,184		11,586	10,604		
AVERAGE SULFUR CONTENT (%)	.39		1.05	4.19		
AVERAGE ASH CONTENT (%)	10.22		14.88	15.25		
AVERAGE MOISTURE CONTENT (%)			7.20	12.93		
OIL: CONSUMPTION (1,000 BARRELS)		2,438.00	8.97	1.10	267.30	
AVERAGE HEAT CONTENT (BTU/GAL)		147,843	136,500	140,000	144,240	
AVERAGE SULFUR CONTENT (%)		.43	.50	.10	.12	
GAS: CONSUMPTION (1,000 MCF)	9,305.70	17,991.00			3,946.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,089	1,068			1,014	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	4	2	8	
- NO. OF WET BOTTOM				2		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	2			2	4	
- NO. WITH COMBINATION PRECIPITATORS[4]			3			
- NO. WITH DESULFURIZATION SYSTEMS			1			
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00	9.00	23.00	24.00 26.00	5.00 6.00	
TESTED, LOW - HIGH				85.00	76.00	
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.60		95.00 99.00	85.00		
TESTED, LOW - HIGH	98.50 99.00		92.40 95.50			
EST., LOW - HIGH			41.00 88.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.12	.41	91.71	6.01	.01	
SULFUR DIOXIDE (1,000 TONS)	22.21	3.52	54.74	27.69	.10	
NITROGEN OXIDES (1,000 TONS)	27.80	8.88	25.15	5.03	1.34	
STACKS: - TOTAL NO.	1	1	4	2	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	500.00	237.00	250.00	249.00 276.00	250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	383.65		316.10	45.10		
SOLD (1,000 TONS)[11]	3.13		27.30			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				98.00	39.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		237.00	642.00	164.00	153.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	298.22		128.00	50.00		
REVENUES FROM SALE OF ASH ($1,000)	14.89		20.00			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	461.11	6,809.00	128.00	50.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	14.89		20.00			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R COLORADO	O PACIFIC OCEAN	O COOSA	O OHIO	O OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	13.38	530.00	1,420.00	210.30	200.00	
AVERAGE RATE OF DISCHARGE (CFS)		530.00	1,419.69	210.30	200.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	13.38	4.56	12.21 .31	1.81	1.72	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		69.00 64.00	96.00 59.00	87.00 46.00	82.00 52.00	
AT OUTFALL, SUMMER - WINTER		98.00 89.00	114.00 79.00	100.00 69.00	92.00 69.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			6,414.00	58,000.00	58,000.00	
- WINTER			26,717.00	371,000.00	371,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]				C		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				.10	1.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		429.00	248.16	9.50	.03	
LIME (TONS), COOLING WATER - BOILER MAKEUP			1.50	4.25	2.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP			20.00	.90		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		20.99	1.73	15.00	5.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]			ST/OT	ST	PS	
RECEIVING WATER BODY			R COOSA	R OHIO		
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING			10.20	10.50 11.00	11.00 9.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			5.00	90.00 550.00	500.00 300.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				536.65	.80	
- ASH SETTLING			315,000.00		7.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			4 1,000.00	2 153.70	7 121.50	
ONCE THROUGH COOLING (SALINE)		1 806.40				
COOLING POND(S)						
COOLING TOWER(S)	1 755.00					
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970	1971	1960 1962	1955 1966	1928 1950	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	25.40	30.00	12.98 14.47	13.30 18.10	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	602.00	530.00	1,286.00	241.77	686.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		530.00	1,420.00	254.50	345.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)		5,448.00	5,898.00	688.00	154.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	84.04	16.98	11.00	27.00	40.00
COST OF CHEMICAL ADDITIVES ($1,000)	19.84	7.23		2.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	502.01	124.00	42.00	13.00	10.00
COST OF CHEMICAL ADDITIVES ($1,000)	59.39	9.68	31.00	6.70	2.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	SOUTHERN INDIANA G. E. CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.
4	NAME OF PLANT	WARRICK	CAPLSBAD	CUNNINGHAM	DENVER CITY	EAST PLANT
5	UTILITY-PLANT CODE	452000-0500	453000-0200	453000-0400	453000-0500	453000-0600
6	STATE	INDIANA	NEW MEXICO	NEW MEXICO	TEXAS	TEXAS
7	COUNTY	WARRICK	EDDY	LEA	YOAKUM	POTTER
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	077 05	155 13	155 13	211 12	211 11
9	PLANT CAPACITY (MW)	732.00	44.30	265.40	80.00	71.00
10	ANNUAL GENERATION (MWH) 3/	4,124,000	141,800	1,449,000	542,200	279,400
11	PLANT HEAT RATE (BTU/KWH) 3/	12,928	14,049	10,060	12,744	14,268

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,384.30					
13	AVERAGE HEAT CONTENT (BTU/LB)	11,177					
14	AVERAGE SULFUR CONTENT (%)	3.52					
15	AVERAGE ASH CONTENT (%)	9.96					
16	AVERAGE MOISTURE CONTENT (%)	11.92					
17	OIL: CONSUMPTION (1,000 BARRELS)	1.50	19.50				8.30
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	138,000				138,000
19	AVERAGE SULFUR CONTENT (%)	.10	.72				.72
20	GAS: CONSUMPTION (1,000 MCF)	6.30	1,886.00	14,572.00	6,736.00	4,304.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000	1,000	1,026	911	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	5	3	4	7		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS							
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3						
27	- NO. WITH COMBINATION PRECIPITATORS 4/	1						
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00 20.00	10.00	10.00	10.00	2.50	5.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00 85.00						
31	TESTED, LOW - HIGH	50.00						
32	ESTIMATED, LOW - HIGH	85.00						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00						
34	TESTED, LOW - HIGH							
35	EST., LOW - HIGH	98.00						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	31.00						
40	SULFUR DIOXIDE (1,000 TONS)	163.56	.05				.04	
41	NITROGEN OXIDES (1,000 TONS)	21.46	.41	2.84	1.31		.86	
42	STACKS: - TOTAL NO.	3	5	2	6	5		
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	400.00 499.50	53.00	136.00 146.00	57.00 96.00	50.00	80.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	215.70						
46	SOLD (1,000 TONS) 11/							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	210.00						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	723.00						
52	COMBINATION PRECIPITATORS ($1,000) 4/							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	1,944.00	9.35	36.60	22.60	13.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	190.00						
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	190.00						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R PECOS	W	W	W		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	728.00	60.00	3.67	2.58	1.21		
63	AVERAGE RATE OF DISCHARGE (CFS)	728.00	60.00	.74	.90	.24		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	6.26	.40	2.93	1.68	.97		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUN NOV	AUG NOV					
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 65.00	83.00 56.00					
67	AT OUTFALL, SUMMER - WINTER	103.00 88.00	85.00 60.00					
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	92,000.00	66.00					
69	- WINTER	200,000.00	7.00					
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.72	.34	.28	.14		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.16		.05	.06		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			7.15	15.15			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00		5.85	3.42	2.79		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/		YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT	PS	ST	ST	PS		
78	RECEIVING WATER BODY	P OHIO						
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING							
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	9.00						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING	136,000.00						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4 732.00						
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)			2 265.40	4 87.50	5 71.00		
87	COMBINATIONS 21/		3 44.30					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1970	1930 1949	1957 1965	1942 1955	1942 1951		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	17.40 23.60	12.00 13.00	15.00	13.00 15.00	15.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	755.00	131.50	355.50	216.60	219.60		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	755.00						

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							
93	COOLING PONDS ($1,000)	3,821.00						
94	COOLING TOWERS ($1,000)		396.60	1,421.40	717.00	530.80		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.00	20.00	25.00	38.00	71.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.00	1.00	14.00	10.00	6.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		9.00	19.00	24.00	13.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)		1.00	1.00	2.00	1.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	
NAME OF PLANT	HOOPE	NICHOLS	PLANT X	RIVERVIEW	ROSWELL	
UTILITY-PLANT CODE	453000-1000	453000-1100	453000-1300	453000-1400	453000-1500	
STATE	TEXAS	TEXAS	TEXAS	TEXAS	NEW MEXICO	
COUNTY	HOOPE COUNTY	POTTER	LAMB	HUTCHINSON	CHAVES	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	211 11	211 11	211 11	211 12	155 13	
PLANT CAPACITY (MW)	68.20	474.77	434.40	34.50	24.20	
ANNUAL GENERATION (MWH)[3]	312,600	1,948,100	2,194,900	212,400	85,300	
PLANT HEAT RATE (BTU/KWH)[3]	12,299	10,078	9,955	14,851	14,295	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)			61.50		11.80	
AVERAGE HEAT CONTENT (BTU/GAL)			138,000		138,000	
AVERAGE SULFUR CONTENT (%)			.72		.48	
GAS: CONSUMPTION (1,000 MCF)	3,914.00	19,913.00	21,493.00	2,653.00	1,151.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	981	991	1,000	1,189	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	4	9	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	10.00	10.00	10.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			.01			
SULFUR DIOXIDE (1,000 TONS)			.15		.02	
NITROGEN OXIDES (1,000 TONS)	.94	3.88	4.33	.52	.25	
STACKS: - TOTAL NO.	2	3	6	5	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	90.00 97.00	160.00	85.00 153.00	80.00	49.00 59.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	10.98	61.00	61.18	17.30	9.60	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	O SEWAGE EFFLNT.	W	W	W	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.15	5.54	6.59	.91	.71	
AVERAGE RATE OF DISCHARGE (CFS)	.23	1.11	2.64	.16	.35	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.92	4.43	3.95	.73	.36	
PEAK LOAD MONTH : SUMMER - WINTER[15]						
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER						
AT OUTFALL, SUMMER - WINTER						
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.13	.60	.93	.02	.29	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	30.90	238.16		.05	
LIME (TONS), COOLING WATER - BOILER MAKEUP	7.20	1,629.19		4.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		53.21				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.56	47.36	18.05	1.15	.38	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	OS	
RECEIVING WATER BODY						
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	2 68.20	3 474.70	4 434.00	4 69.50	2 24.20	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1954	1960 1968	1952 1964	1939 1947	1941 1950	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 18.00	15.00	15.00	15.00	11.00 14.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	163.00	626.50	648.80	136.50	70.90	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	706.10	2,679.50	2,784.10	307.40	193.60	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.00	98.00	74.00	22.00	17.00	
COST OF CHEMICAL ADDITIVES ($1,000)	6.00	69.00	20.00	3.00	2.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	29.00	32.00	23.00	19.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	6.00	27.00	1.00	2.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	SOUTHWESTERN PUBLIC SERVICE CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	
4	NAME OF PLANT	JONES	ARSENAL HILL	KNOX LEE	LIEBERMAN	LONE STAR	
5	UTILITY-PLANT CODE	453000-1700	454000-0100	454000-0200	454000-0300	454000-0400	
6	STATE	TEXAS	LOUISIANA	TEXAS	LOUISIANA	TEXAS	
7	COUNTY	LUBBOCK	CADDO	GREGG	CADDO	MORRIS	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	211 12	022 11	022 12	022 11	022 11	
9	PLANT CAPACITY (MW)	247.50	170.00	186.00	277.00	50.00	
10	ANNUAL GENERATION (MWH)[3]	1,099,700	381,400	1,179,700	922,600	368,700	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,152	11,403	12,215	11,448	11,861	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)				10.00		
18	AVERAGE HEAT CONTENT (BTU/GAL)				146,000		
19	AVERAGE SULFUR CONTENT (%)				.10		
20	GAS: CONSUMPTION (1,000 MCF)	11,006.00	4,042.00	14,072.00	9,916.00	3,495.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,011	1,076	1,024	1,059	1,048	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.			4	4	1	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00 15.00	7.00 8.00	15.00 17.00	7.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH						
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)						
40	SULFUR OIOXIDE (1,000 TONS)						
41	NITROGEN OXIDES (1,000 TONS)	2.15	.79	2.74	1.94	.68	
42	STACKS: - TOTAL NO.	1	4	4	5	1	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	171.00	155.00 275.00	100.00 170.00	125.00 140.00	140.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	32.00	70.70	44.00	41.00	13.94	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O SEWAGE EFFLNT.	N	L CHEROKEE	L CADDO	S ELLISON CR BEE	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	3.49	173.00	391.00	251.00	122.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	.70	173.00	391.00	251.00	122.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.79					
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		95.00 87.00	89.00 53.00	97.00 93.00	88.00 54.00	
67	AT OUTFALL, SUMMER - WINTER		115.00 85.00	104.00 66.00	109.00 55.00	101.00 66.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.18					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	20.06	19.11		19.11		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	991.00					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	163.59					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.43	.38	4.25	4.95	2.48	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES		YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	ST	
78	RECEIVING WATER BODY						
79	POND DISCHARGES[19] PH, BOILER BLOWDOWN - ASH SETTLING						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)		5 170.00	4 186.00	4 277.20	1 50.00	
86	COOLING TOWER(S)	1 247.50					
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1971	1960	1950 1956	1947 1959	1953	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.70	10.00 16.00	8.40 15.80	12.00 16.00	14.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	311.10	468.00	435.00	416.00	122.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)		187.80		723.70		
94	COOLING TOWERS ($1,000)	2,291.00					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	54.00	2.33	11.00	1.00	1.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	40.00	.10	.97	1.30	.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.00	3.10	3.00	1.00	1.50	
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	1.10		1.70		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	SOUTHWESTERN ELECTRIC POWER CO.	SPRINGFIELD WATER LIGHT & POWER DEPT.	SPRINGFIELD WATER LIGHT & POWER DEPT.	ST. JOSEPH LIGHT & POWER CO.	ST. JOSEPH LIGHT & POWER CO.		1
2		2							2
3		3							3
4	NAME OF PLANT	4	WILKES	DALLMAN	LAKESIDE	EDMOND	LAKEROAD		4
5	UTILITY-PLANT CODE	5	454000-0500	457000-0100	457000-0200	460000-0100	460000-0200		5
6	STATE	6	TEXAS	ILLINOIS	ILLINOIS	MISSOURI	MISSOURI		6
7	COUNTY	7	MARION	SANGAMON	SANGAMON	BUCHANAN	BUCHANAN		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	022 11	075 07	075 07	094 10	094 10		8
9	PLANT CAPACITY (MW)	9	881.52	160.00	146.00	42.50	150.50		9
10	ANNUAL GENERATION (MWH)[3]	10	5,670,300	838,700	270,200	104,500	1,012,700		10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	9,918	11,725	14,977	19,425	12,933		11
	AIR QUALITY CONTROL DATA								
	FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12		436.90	190.80		76.13		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		10,294	10,500		10,432		13
14	AVERAGE SULFUR CONTENT (%)	14		3.74	3.69		3.61		14
15	AVERAGE ASH CONTENT (%)	15		11.76	11.34		10.04		15
16	AVERAGE MOISTURE CONTENT (%)	16		13.86	12.87		16.55		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.30		6.80	33.76	21.49		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,000		136,459	149,895	150,015		18
19	AVERAGE SULFUR CONTENT (%)	19	.10		.30	2.27	2.21		19
20	GAS: CONSUMPTION (1,000 MCF)	20	56,319.00			1,881.38	11,785.83		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	998			966	965		21
	PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	2	8	5	6		22
23	- NO. OF WET BOTTOM	23		2	2		1		23
24	- NO. WITH FLY ASH REINJECTION	24							24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		1	4	2	3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	4				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27							27
28	- NO. WITH DESULFURIZATION SYSTEMS	28							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	6.00 7.00	15.00	15.00 20.00	10.00 33.00	10.00 25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		82.00		93.00	70.00 85.70		30
31	TESTED, LOW - HIGH	31					57.70 87.70		31
32	ESTIMATED, LOW - HIGH	32				93.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33		97.50	97.50				33
34	TESTED, LOW - HIGH	34							34
35	EST., LOW - HIGH	35	97.50 99.00		95.90				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36							36
37	TESTED, LOW - HIGH	37							37
38	ESTIMATED, LOW - HIGH	38							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39		.99	.22		.77		39
40	SULFUR DIOXIDE (1,000 TONS)	40		32.03	13.88	.26	5.53		40
41	NITROGEN OXIDES (1,000 TONS)	41	10.98	12.01	4.58	.44	3.98		41
42	STACKS: - TOTAL NO.	42	4	2	9	3	6		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	161.00 162.00	300.00	125.00 300.00	75.00 189.00	92.00 225.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45		50.06	20.96		6.52		45
46	SOLD (1,000 TONS)[11]	46							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50		125.00	39.80	23.20	176.10		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51		223.50	1,036.40				51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52							52
53	DESULFURIZATION SYSTEMS ($1,000)	53							53
54	STACKS ($1,000)	54	297.00	644.00	640.00	145.89	270.60		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		56.10	33.30		5.50		55
56	REVENUES FROM SALE OF ASH ($1,000)	56							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59		81.00	43.40		5.50		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60							60
	WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	C JOHNSON CO RES	L SPRINGFIELD	L SPRINGFIELD	MISSOURI	MISSOURI		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,572.00	173.50	97.10	31.20	101.30		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,572.00	173.50	97.10	31.20	101.30		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64		1.49	.84	.27	.87		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG DEC	JUL DEC	JUL DEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	102.00 74.00	89.00 45.00	92.00 42.00	83.00 36.00	84.00 36.50		66
67	AT OUTFALL, SUMMER - WINTER	67	118.00 91.00	101.00 59.00	101.00 56.00	102.00 62.00	104.00 66.50		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68				36,900.00	36,900.00		68
69	- WINTER	69				33,142.00	33,142.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.41	.30	5.36	8.56		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	76.44		.40	.18	.20		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				33.80	188.68		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		.25	.10	1.20	4.71		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES		YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	77	ST	PS	PS	PS	OT		77
78	RECEIVING WATER BODY	78							78
79	POND DISCHARGE[18]/PH, BOILER BLOWDOWN - ASH SETTLING	79		9.00	9.00				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		4.00	4.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81							81
82	- ASH SETTLING	82		23,028.00	44,500.00				82
	COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	83		2 170.25	7 155.00	3 42.50	1 90.00		83
84	ONCE THROUGH COOLING (SALINE)	84							84
85	COOLING POND(S)	85							85
86	COOLING TOWER(S)	86					3 60.50		86
87	COMBINATION[20]	87	3 881.50						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1964	1968 1972	1935 1965	1920 1949	1951 1967		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	89	21.00	15.00	13.65 14.11	12.00 13.00	12.20 18.30		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	787.00	274.00	339.00	129.23	269.30		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	91		468.00	481.00	129.30	114.60		91
	CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		258.00	510.00	175.00	580.10		92
93	COOLING PONDS ($1,000)	93	1,112.00						93
94	COOLING TOWERS ($1,000)	94	944.00				218.70		94
	ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	5.00	33.10	41.60	14.22	8.67		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	5.90	.20	.10	.35	21.14		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	32.00	12.90	12.90	21.53	95.35		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	5.70	2.80	2.10	6.49	17.80		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	TALLAHASSEE, CITY OF	TALLAHASSEE, CITY OF	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	PURDOM	HOPKINS	GANNON	HOOKERS POINT	BIG BEND	4
5	UTILITY-PLANT CODE	473500-0100	473500-0300	474000-0100	474000-0200	474000-0300	5
6	STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	6
7	COUNTY	WAKULLA	LEON	HILLSBOROUGH	HILLSBOROUGH	HILLSBOROUGH	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	049 03	049 03	052 03	052 03	052 03	8
9	PLANT CAPACITY (MW)	130.00	75.00	1,270.38	232.60	445.50	9
10	ANNUAL GENERATION (MWH)[3]	515,100	290,000	5,136,300	1,076,900	1,976,560	10
11	PLANT HEAT RATE (BTU/KWH)[3]	13,181	12,521	10,460	12,723	10,581	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)			2,420.62		926.09	12
13	AVERAGE HEAT CONTENT (BTU/LB)			11,097		11,255	13
14	AVERAGE SULFUR CONTENT (%)			3.67		3.66	14
15	AVERAGE ASH CONTENT (%)			12.66		12.25	15
16	AVERAGE MOISTURE CONTENT (%)			10.68		10.55	16
17	OIL: CONSUMPTION (1,000 BARRELS)	281.44	72.26		2,136.32		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	155,000	155,386		149,497		18
19	AVERAGE SULFUR CONTENT (%)	1.65	1.65		2.50		19
20	GAS: CONSUMPTION (1,000 MCF)	4,662.50	2,569.00				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,063	1,064				21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	7	1	6	6	1	22
23	- NO. OF WET BOTTOM			6		1	23
24	- NO. WITH FLY ASH REINJECTION			6		1	24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			6		1	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 15.00	7.00	15.00 16.00	15.00 20.00	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.00 98.50		98.50	33
34	TESTED, LOW - HIGH			80.20 97.20		98.40	34
35	EST., LOW - HIGH			80.00 98.00		98.70	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.01	16.94	.37	2.63	39
40	SULFUR OXIDE (1,000 TONS)	1.56	.40	174.12	16.19	66.65	40
41	NITROGEN OXIDES (1,000 TONS)	1.53	.74	52.65	4.62	13.54	41
42	STACKS: - TOTAL NO.	6	1	7	4	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	84.00 180.00	200.00	200.00 306.00	150.00 175.00	450.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.10		44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]			427.40		210.00	45
46	SOLD (1,000 TONS)[11]			332.10		50.20	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			1,434.00		540.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	90.00		288.00	184.00	612.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			300.00	2.00	111.00	55
56	REVENUES FROM SALE OF ASH ($1,000)			280.53	50.76	50.17	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			713.00	17.60	115.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			280.53		50.17	60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES A, L, R, C, U, M & O EXPL. IN FOOTNOTES)	c ST. MARKS	a	b TAMPA	b TAMPA	c TAMPA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	205.40	1.20	1,961.00	390.00	534.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	205.40	.30	1,961.00	390.00	534.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.77	.90	16.86	3.35	4.59	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP FEB	SEP FEB	AUG JAN	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 72.00	70.00 70.00	91.00 76.00	89.00 74.00	93.00 75.00	66
67	AT OUTFALL, SUMMER - WINTER	94.00 76.00		105.00 83.00	110.00 98.00	109.00 89.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	232.55	.38				68
69	- WINTER	201.25	.13				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.46	.11	2.50	.90	.74	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.49		542.50	4.26	164.86	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.00	6.00	260.50	65.00	68.44	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	ST	OT	PS	OT	77
78	RECEIVING WATER BODY			b TAMPA			78
79	POND DISCHARGE:[10] PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 118.00					83
84	ONCE THROUGH COOLING (SALINE)			c 1,270.38	5 232.60	1 450.00	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)		1 60.00				86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952 1966	1971	1957 1967	1948 1955	1970	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 15.00	17.00	12.00 16.00	14.40 18.10	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	286.40	124.80	1,961.00	390.40	535.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	367.00		1,961.00	327.40	535.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	750.00		4,164.00	2,561.00	1,200.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)		397.40				94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	2.00	83.30	35.40	16.90	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.30	11.00	22.30	5.75	6.77	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	.50	141.00	31.40	16.90	97
98	COST OF CHEMICAL ACUITIES ($1,000)	6.00	4.00	66.40	7.32	13.84	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	TAUNTON MUNICIPAL LIGHTING PLT.	TAUNTON MUNICIPAL LIGHTING PLT.	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	
4 NAME OF PLANT	CLEARY	TAUNTON	ALLEN	BULL RUN	COLBERT A	
5 UTILITY-PLANT CODE	475000-0100	475000-0200	477000-0130	477000-0500	477000-0900	
6 STATE	MASSACHUSETTS	MASSACHUSETTS	TENNESSEE	TENNESSEE	ALABAMA	
7 COUNTY	BRISTOL	BRISTOL	SHELBY	ANDERSON	COLBERT	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	120 01	120 01	018 08	207 06	007 06	
9 PLANT CAPACITY (MW)	28.30	46.00	990.00	950.00	846.50	
10 ANNUAL GENERATION (MWH)[3]	150,500	117,100	4,824,177	5,196,655	4,454,508	
11 PLANT HEAT RATE (BTU/KWH)[3]	12,914	19,774	9,997	9,260	10,900	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)			1,374.70	2,098.50	1,956.70	
13 AVERAGE HEAT CONTENT (BTU/LB)			11,096	11,117	11,178	
14 AVERAGE SULFUR CONTENT (%)			3.32	1.19	4.11	
15 AVERAGE ASH CONTENT (%)			11.17	15.52	15.32	
16 AVERAGE MOISTURE CONTENT (%)			12.03	7.78	7.81	
17 OIL: CONSUMPTION (1,000 BARRELS)	314.40	377.92	1.60	69.02	6.38	
18 AVERAGE HEAT CONTENT (BTU/GAL)	145,886	145,882	136,700	137,902	138,600	
19 AVERAGE SULFUR CONTENT (%)	.85	.86	.30	.54	.30	
20 GAS: CONSUMPTION (1,000 MCF)			15,331.46			
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,045			

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	2	7	3	1	4	
23 - NO. OF WET BOTTOM			3			
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS		1			3	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS			3	1	3	
27 - NO. WITH COMBINATION PRECIPITATORS[4]					1	
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 15.00	15.00	13.00	20.00	20.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					85.00	
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH		80.00				
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			99.00	95.00 97.00	98.50	
34 TESTED, LOW - HIGH			70.00 98.70	81.00	86.00	
35 EST., LOW - HIGH			70.00 98.70	81.00 88.00	97.00	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.35	1.16	52.53	19.46	
40 SULFUR DIOXIDE (1,000 TONS)			68.92	44.36	157.24	
41 NITROGEN OXIDES (1,000 TONS)	.69	.93	40.79	18.89	14.68	
42 STACKS: - TOTAL NO.	2	4	3	1	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	82.00 129.83	94.00 250.00	400.00	800.00	300.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.06			.33	
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]		.02	150.30	276.30	266.70	
46 SOLD (1,000 TONS)[11]			90.00			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					239.70	
51 ELECTROSTATIC PRECIPITATORS ($1,000)			8,266.00	1,701.00	5,947.50	
52 COMBINATION PRECIPITATORS ($1,000)[4]					2,429.90	
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	22.00	157.00		1,224.00	524.00	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.80	10.00	242.00	155.00	389.00	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	2.80	10.00	242.00	155.00	389.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)			20.00			

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O TAUNTON	R TAUNTON	O MISSISSIPPI	C CLINCH	C TENNESSEE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	38.00	93.00	676.00	664.00	1,132.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	38.00	93.00	677.00	665.00	1,126.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.33	.80	5.83 1.00	5.73 1.00	9.74 6.00	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 33.00	88.00 36.00	82.00 47.00	59.00 53.00	83.00 51.00	
67 AT OUTFALL, SUMMER - WINTER	99.00 45.00	98.00 46.00	104.00 69.00	76.00 72.00	96.00 64.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	58.00	93.00		4,300.00	41,000.00	
69 - WINTER	58.00	93.00		15,000.00	140,000.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.22	.97			.64	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.16	3.10	32.36	20.65	.04	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP					9.75	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00	21.00	37.00		.42	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	OT	ST	
78 RECEIVING WATER BODY	O LEACHING FIELD			C CLINCH	C TENNESSEE	
79 POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			7.50	6.90	11.90	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			28.00	110.00	107.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING			39,000.00	49,000.00	342,000.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			3 990.00	1 950.00	4 846.50	
84 ONCE THROUGH COOLING (SALINE)	1 28.00	5 44.00				
85 COOLING PONDS						
86 COOLING TOWERS						
87 COMBINATION[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1933 1958	1958 1959	1966	1954 1955	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	14.00 20.00	20.00	17.90	13.20	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	55.80	94.60	768.60	885.60	1,270.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	55.80	94.60	848.88	950.76	1,354.64	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	250.00	515.00		2,042.00	2,688.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.50	18.00	34.00	27.00	45.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)	3.00	3.50	4.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	35.50	30.00	10.00	19.00	51.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	.40	1.00	9.00	6.00	7.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	
NAME OF PLANT	COLBERT 8	GALLATIN	SEVIER	JOHNSONVILLE	KINGSTON	
UTILITY-PLANT CODE	477000-0905	477000-1400	477000-1800	477000-1900	477000-2100	
STATE	ALABAMA	TENNESSEE	TENNESSEE	TENNESSEE	TENNESSEE	
COUNTY	COLBERT	SUMNER	HAWKINS	HUMPHREYS	ROANE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	007 06	208 05	207 06	208 06	207 06	
PLANT CAPACITY (MW)	550.00	1,255.20	823.25	1,485.20	1,700.00	
ANNUAL GENERATION (MWH)[3]	1,541,810	6,330,862	4,589,409	6,712,180	9,933,636	
PLANT HEAT RATE (BTU/KWH)[3]	10,550	9,929	9,432	10,396	9,589	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	684.50	2,637.20	1,889.30	3,186.75	4,367.70	
AVERAGE HEAT CONTENT (BTU/LB)	11,155	10,672	11,566	11,047	10,888	
AVERAGE SULFUR CONTENT (%)	4.22	2.57	1.79	3.76	2.09	
AVERAGE ASH CONTENT (%)	15.96	15.69	15.05	14.01	19.14	
AVERAGE MOISTURE CONTENT (%)	7.34	8.97	6.37	9.38	6.25	
OIL: CONSUMPTION (1,000 BARRELS)	6.81	11.90	7.25	9.70	24.43	
AVERAGE HEAT CONTENT (BTU/GAL)	138,800	137,300	137,600	136,200	137,700	
AVERAGE SULFUR CONTENT (%)	.30	.20	.20	.14	.30	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	4	4	10	9	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		2	4	10		
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS[4]		4			9	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00	20.00	10.00 20.00	10.00 20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	72.00	84.00	85.00	85.00 66.00		
TESTED, LOW - HIGH				56.00 81.00		
ESTIMATED, LOW - HIGH			50.00	60.00 70.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00	98.60 99.20			99.30	
TESTED, LOW - HIGH	80.00	91.20 95.00			80.00 91.50	
EST., LOW - HIGH	50.00	90.00 92.00			80.00 85.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	35.59	32.22	120.45	122.72	119.00	
SULFUR DIOXIDE (1,000 TONS)	56.25	134.39	66.66	231.11	179.77	
NITROGEN OXIDES (1,000 TONS)	5.13	23.73	17.00	26.43	39.31	
STACKS: - TOTAL NO.	1	2	2	8	9	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	500.00	500.00	350.00	270.00 400.00	250.00 300.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	65.50	398.00	170.60	301.10	764.50	
SOLD (1,000 TONS)[11]		.10			29.30	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		229.00	262.40	731.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	744.00					
COMBINATION PRECIPITATORS ($1,000)[4]		5,524.00			2,409.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	427.00	715.00	372.00	360.00	1,090.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	155.00	427.00	213.00	263.00	624.00	
REVENUES FROM SALE OF ASH ($1,000)					59.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	155.00	427.00	213.00	263.00	624.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		.19			59.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	° TENNESSEE	° CUMBERLAND	° HOLSTON	° TENNESSEE	° CLINCH	
AVERAGE RATE OF WITHDRAWAL (CFS)	314.00	1,090.00	942.00	2,001.00	1,975.00	
AVERAGE RATE OF DISCHARGE (CFS)	312.00	1,074.00	938.00	1,989.00	1,954.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.70 2.00	9.37 16.00	4.11 5.00	12.21 12.00	16.99 21.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 51.00	72.00 52.00	78.00 47.00	84.00 51.00	70.00 51.00	
AT OUTFALL, SUMMER - WINTER	96.00 64.00	88.00 68.00	93.00 62.00	97.00 64.00	84.00 65.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	41,000.00	10,000.00	3,600.00	45,000.00	3,700.00	
- WINTER	140,000.00	41,000.00	12,000.00	180,000.00	24,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		6.95	1.15	1.79	2.55	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	64.61		67.78	.33	.90	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.25	20.60	11.31	25.48	25.60	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.23	.63	105.00 .47	1.07	52.20 5.27	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	DT	ST	ST	ST	
RECEIVING WATER BODY	R TENNESSEE	R CUMBERLAND	F HOLSTON	R TENNESSEE	R EMORY	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	9.50	8.40	10.80	4.10		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	24.00	50.00	30.00	19.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	635,000.00	195,000.00	487,000.00	732,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 550.00	4 1,255.20	4 823.25	10 1,485.20	9 1,700.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1956 1959	1955 1957	1951 1959	1954 1955	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.40	11.30 15.60	17.00	12.40 13.30	15.20 15.50	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	654.00	1,320.00	1,011.60	2,293.00	2,154.50	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	695.14	1,417.00	1,105.08	2,486.48	2,323.83	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,694.00	2,924.00	3,528.00	5,082.00	5,157.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.00	31.00	30.00	31.00	43.00	
COST OF CHEMICAL ADDITIVES ($1,000)			13.00		5.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	71.00	59.00	71.00	78.00	79.00	
COST OF CHEMICAL ADDITIVES ($1,000)	18.00	6.00	16.00	8.00	11.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	
NAME OF PLANT	PARADISE	SHAWNEE	WATTS BAR	WIDOWS CREEK A	WIDOWS CREEK 8	
UTILITY-PLANT CODE	477000-3000	477000-3200	477000-3600	477000-3800	477000-3805	
STATE	KENTUCKY	KENTUCKY	TENNESSEE	ALABAMA	ALABAMA	
COUNTY	MUHLENBERG	MC CRACKEN	RHEA	JACKSON	JACKSON	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	072 05	072 05	207 06	007 06	007 06	
PLANT CAPACITY (MW)	2,558.20	1,750.00	240.00	852.98	1,125.01	
ANNUAL GENERATION (MWH)[3]	15,008,000	10,101,772	849,800	4,118,114	4,131,000	
PLANT HEAT RATE (BTU/KWH)[3]	9,483	9,838	12,212	10,757	9,787	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	6,897.70	4,762.60	469.20	1,935.00	1,778.20	
AVERAGE HEAT CONTENT (BTU/LB)	10,300	10,423	11,053	11,413	11,332	
AVERAGE SULFUR CONTENT (%)	4.08	2.76	3.75	2.16	3.51	
AVERAGE ASH CONTENT (%)	18.75	15.63	15.56	16.71	15.06	
AVERAGE MOISTURE CONTENT (%)	8.93	11.28	8.29	6.41	7.27	
OIL: CONSUMPTION (1,000 BARRELS)	40.24	17.70	1.40	22.09	22.06	
AVERAGE HEAT CONTENT (BTU/GAL)	136,222	136,800	138,000	138,400	138,300	
AVERAGE SULFUR CONTENT (%)	.28	.20	.20	.01	.01	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	10	4	6	2	
- NO. OF WET BOTTOM	3					
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4		6		
- NO. WITH ELECTROSTATIC PRECIPITATORS	3		4		2	
- NO. WITH COMBINATION PRECIPITATORS[4]		10				
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	16.00 20.00	20.00	20.00	20.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00			85.00		
TESTED, LOW - HIGH				70.00		
ESTIMATED, LOW - HIGH				60.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	98.50	95.00		90.00	
TESTED, LOW - HIGH	98.00	94.00	95.00		99.00	
EST., LOW - HIGH	95.00	94.00	95.00	50.00	95.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				50.00		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	6.48	28.98	2.38	84.02	79.81	
SULFUR DIOXIDE (1,000 TONS)	554.30	261.37	34.94	83.44	121.96	
NITROGEN OXIDES (1,000 TONS)	189.69	35.72	3.52	14.51	16.00	
STACKS: - TOTAL NO.	3	10	2	6	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	600.00 800.00	250.00	147.00	270.00	500.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		6.85				
TOTAL ASH: COLLECTED (1,000 TONS)[10]	1,274.20	672.70	383.50	214.90	256.70	
SOLD (1,000 TONS)[11]	50.70					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		377.20		553.20		
ELECTROSTATIC PRECIPITATORS ($1,000)	6,698.00		1,466.00		1,737.00	
COMBINATION PRECIPITATORS ($1,000)[4]		1,030.60				
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	962.00	1,830.00	30.00	192.00	684.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2,025.00	391.00	69.00	178.00	468.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	2,025.00	391.00	69.00	178.00	468.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	23.00					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O GREEN	L OHIO	L TENNESSEE	L TENNESSEE	B TENNESSEE	
AVERAGE RATE OF WITHDRAWAL (CFS)	854.00	2,260.00	343.00	1,171.00	672.00	
AVERAGE RATE OF DISCHARGE (CFS)	825.00	2,233.00	339.00	1,161.00	660.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	29.00	27.00	4.00	10.00	12.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	98.00 49.00	82.00 46.00	81.00 52.00	81.00 55.00	81.00 55.00	
AT OUTFALL, SUMMER - WINTER	76.00	94.00 58.00	91.00 62.00	96.00 70.00	96.00 70.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,400.00	240,000.00	27,000.00	35,000.00	35,000.00	
- WINTER	28,000.00	718,000.00	78,000.00	107,000.00	107,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		9.99	1.12	3.09	.02	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	24.35				6.44	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP		30.01	10.00	13.17	13.13	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	51.00	48.00 1.18		2.61	.55	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[18]	OT	ST	ST			
RECEIVING WATER BODY		O OHIO	O TENNESSEE	C ASH POND	O ASH POND	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.80	11.40	9.30	10.40		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	270.00	75.00	40.00	24.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	132,000.00	930,000.00	172,071.91	976,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		10 1,750.00	4 240.00	6 853.00	2 1,125.01	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS)						
COOLING TOWERS)	1 1,150.20					
COMBINATION[21]	2 1,408.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963 1969	1953 1956	1942 1945	1952 1954	1960 1964	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	26.00 28.00	12.30	6.90	11.60 12.20	18.30 20.90	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,634.80	2,397.00	625.60	1,371.00	1,062.80	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,144.86	2,495.40		1,425.94	1,149.70	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,890.00	9,730.00	652.00	3,706.00	2,620.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	164.00	155.00	10.00	51.00	18.00	
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	4.00				

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	23.00	112.00	4.00	44.00	57.00	
COST OF CHEMICAL ADDITIVES ($1,000)	13.00	8.00	2.00	3.00	17.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	
NAME OF PLANT	CUMBERLAND	EAGLE MOUNTAIN	GRAHAM	HANDLEY	MORGAN CREEK	
UTILITY-PLANT CODE	477000-4100	478000-0100	478000-0200	478000-0300	478000-0400	
STATE	TENNESSEE	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	STEWART	TARRANT	YOUNG	TARRANT	MITCHELL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	208 05	219 12	210 12	219 12	219 12	
PLANT CAPACITY (MW)	1,300.00	706.15	634.78	523.35	845.76	
ANNUAL GENERATION (MWH)[3]	2,385,000	2,141,100	3,430,200	1,925,800	4,575,900	
PLANT HEAT RATE (BTU/KWH)[3]	10,122	11,310	9,980	10,290	10,250	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,131.40					
AVERAGE HEAT CONTENT (BTU/LB)	10,482					
AVERAGE SULFUR CONTENT (%)	3.69					
AVERAGE ASH CONTENT (%)	16.33					
AVERAGE MOISTURE CONTENT (%)	10.39					
OIL: CONSUMPTION (1,000 BARRELS)	73.53	27.80	11.70	7.00	30.20	
AVERAGE HEAT CONTENT (BTU/GAL)	138,100	142,857	142,857	142,857	142,857	
AVERAGE SULFUR CONTENT (%)	.20	.60	.70	.70	.80	
GAS: CONSUMPTION (1,000 MCF)		23,157.50	33,148.30	19,083.70	45,909.90	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,038	1,030	1,036	1,017	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	3	2	4	6	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	7.00 10.00	6.50 8.00	8.00 14.50	8.00 20.00	
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH	99.00					
TESTED, LOW - HIGH						
EST., LOW - HIGH	99.00					
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.57				.61	
SULFUR DIOXIDE (1,000 TONS)	82.06	.06	.03	.02	.08	
NITROGEN OXIDES (1,000 TONS)	10.18	4.58	6.49	3.74	9.02	
STACKS: - TOTAL NO.	1	2	3	4	6	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	1,000.00	213.00 225.00	163.00 177.00	150.00 164.00	150.00 182.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	183.30					
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	3,887.50					
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	3,892.50	66.00		150.00	88.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	75.00					
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	75.00					
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, N, M & O EXPL. IN FOOTNOTES)	R CUMBERLAND	L EAGLE MOUNTAIN	L EDDLEMAN	L ARLINGTON	L COLORADO CITY	
AVERAGE RATE OF WITHDRAWAL (CFS)	973.00	471.30	631.60	460.60	927.20	
AVERAGE RATE OF DISCHARGE (CFS)	970.00	467.60	626.90	457.80	919.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.00	3.70	4.70	2.80	8.20	
PEAK LOAD MONTH: SUMMER - WINTER[15]	JUL DEC	JUN DEC	JUN DEC	JUN DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 53.00	86.00 57.00	98.00 79.00	89.80 55.00		
AT OUTFALL, SUMMER - WINTER	100.00 65.00	103.00 72.00	93.00 64.00	106.60 69.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	12,000.00					
- WINTER	72,000.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	C					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		2.66	.25	.72	1.00	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	250.00	23.30	46.00	1.00	48.82	
LIME (TONS), COOLING WATER - BOILER MAKEUP		39.24	25.00		65.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	19.00					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.40	15.00	30.50	40.00	26.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]	OT	OT	PS	PS	ST	
RECEIVING WATER BODY[18]	R CUMBERLAND	L EAGLE MOUNTAIN				
POND DISCHARGE[19] RH, SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	9.20					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	30.00					
	110,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 1,300.00					
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		3 706.20	2 634.78	3 523.35	6 845.76	
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1972	1932	1960 1969	1957 1962	1950 1966	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.70	21.10 28.00	14.00 20.00	16.00 17.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,800.00	648.20	753.00	755.00	1,100.10	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,112.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.00					
COST OF CHEMICAL ADDITIVES ($1,000)		1.50	3.10	4.00	2.73	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00		11.50			
COST OF CHEMICAL ADDITIVES ($1,000)	66.00	5.40	6.24		19.81	

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS POWER AND LIGHT CO.	TEXAS POWER & LIGHT CO.	
4 NAME OF PLANT	NORTH MAIN	PERMIAN BASIN	WICHITA FALLS	BIG BROWN	COLLIN	
5 UTILITY-PLANT CODE	478000-0500	478000-0600	478000-0700	478500-0250	478500-0300	
6 STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
7 COUNTY	TARRANT	ANDREWS	WICHITA	FREESTONE	COLLIN	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	215 12	218 13	210 11	212 19	215 12	
9 PLANT CAPACITY (MW)	116.25	164.95	25.00	1,186.80	156.25	
10 ANNUAL GENERATION (MWH)[3]	329,800	919,700	400	2,460,300	687,100	
11 PLANT HEAT RATE (BTU/KWH)[3]	13,042	11,060	25,056	10,610	10,468	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)				1,789.90		
13 AVERAGE HEAT CONTENT (BTU/LB)				7,000		
14 AVERAGE SULFUR CONTENT (%)				.60		
15 AVERAGE ASH CONTENT (%)				10.40		
16 AVERAGE MOISTURE CONTENT (%)				30.80		
17 OIL: CONSUMPTION (1,000 BARRELS)	11.20				31.05	
18 AVERAGE HEAT CONTENT (BTU/GAL)	142,857				147,833	
19 AVERAGE SULFUR CONTENT (%)	.90				.70	
20 GAS: CONSUMPTION (1,000 MCF)	4,114.70	9,427.50	9.50	976.30	7,110.48	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,029	1,079	1,055	1,070	984	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	8	5	2	2	1	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS						
26 - NO. WITH ELECTROSTATIC PRECIPITATORS				2		
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	8.00 12.00	12.00	20.00	6.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				97.30		
34 TESTED, LOW - HIGH				97.60		
35 EST., LOW - HIGH				97.30		
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)				3.80	.01	
40 SULFUR DIOXIDE (1,000 TONS)	.03			21.05	.07	
41 NITROGEN OXIDES (1,000 TONS)	.83	1.88		16.30	1.46	
42 STACKS: - TOTAL NO.	4	4	1	2	2	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	256.00 321.00	150.00	150.00	400.00	196.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]				185.90		
46 SOLD (1,000 TONS)[11]						
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)				3,451.00		
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	109.00	143.80	17.30	1,178.00	96.10	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C TRINITY	W	L WICHITA	C BIG BROWN	W	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	2.30	3.00	1.05	11.00	2.78	
63 AVERAGE RATE OF DISCHARGE (CFS)	1.50	.60	1.05		.13	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.80	3.00		6.00	2.65	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN OEC	JUN OEC	JUN OEC	AUG OEC	JUL OEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00 49.00	60.00 60.00		85.00 50.00		
67 AT OUTFALL, SUMMER - WINTER	95.00 57.00	99.00 87.00				
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				11.00		
69 - WINTER				11.00		
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.70	1.43	.02		.99	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		48.79		10.17	.23	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	245.25					
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	20.00		.38	.09	11.70	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES		YES	YES YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	PS	ST	ST	
78 RECEIVING WATER BODY[19]				O COOLING POND		
79 POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING		8.90		11.00		
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		25.50				
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING						

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING POND(S)	2 35.00			2 1,186.80		
86 COOLING TOWER(S)	1 81.25	5 164.95	2 25.00		1 156.25	
87 COMBINATION[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1918 1952	1948 1956	1948 1949	1969	1953	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 19.00	20.00	16.00	15.40	15.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	211.70	264.00	59.60	1,514.00	186.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)						
93 COOLING PONDS ($1,000)				6,308.00		
94 COOLING TOWERS ($1,000)	277.00	785.20	98.00		794.14	

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)					59.74	
96 COST OF CHEMICAL ADDITIVES ($1,000)	10.80	13.80		12.00	21.99	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)					35.54	
98 COST OF CHEMICAL ADDITIVES ($1,000)	1.70	11.20		5.00	2.99	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.
2						
3						
4	NAME OF PLANT	LAKE CREEK	RIVER CREST	STRYKER	TRADINGHOUSE	TRINIDAD
5	UTILITY-PLANT CODE	478500-0500	478500-0600	478500-0700	478500-0850	478500-0900
6	STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS
7	COUNTY	MCLENNAN	RED RIVER	CHEROKEE	MCLENNAN	HENDERSON
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	212 12	022 11	022 12	212 12	022 12
9	PLANT CAPACITY (MW)	315.63	112.50	703.48	1,379.70	412.11
10	ANNUAL GENERATION (MWH)[3]	1,838,400	118,600	2,851,900	5,749,000	1,229,100
11	PLANT HEAT RATE (BTU/KWH)[3]	10,679	12,504	10,285	9,858	10,767

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					
13	AVERAGE HEAT CONTENT (BTU/LB)					
14	AVERAGE SULFUR CONTENT (%)					
15	AVERAGE ASH CONTENT (%)					
16	AVERAGE MOISTURE CONTENT (%)					
17	OIL: CONSUMPTION (1,000 BARRELS)	25.96	51.56	1.10	17.85	59.33
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,059	159,060	148,966	147,027	147,465
19	AVERAGE SULFUR CONTENT (%)	.70	.70	.70	.70	.70
20	GAS: CONSUMPTION (1,000 MCF)	19,113.05	1,116.79	28,439.25	51,904.40	12,744.97
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,018	1,037	1,031	1,013	1,009

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	1	2	2	9
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00 10.00	8.00	8.00	6.00 8.00	10.00 16.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.01			.01
40	SULFUR DIOXIDE (1,000 TONS)	.06	.12		.04	.14
41	NITROGEN OXIDES (1,000 TONS)	3.78	.33	5.55	10.16	2.62
42	STACKS: - TOTAL NO.	3	2	4	2	6
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	150.00 181.00	150.00	161.00 197.00	170.00 198.00	141.75 390.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	77.23	20.16	60.74	94.69	282.22
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BRAZOS	L SULPHUR	L STRYKER	R BRAZOS	R TRINITY
62	AVERAGE RATE OF WITHDRAWAL (CFS)	7.29	1.12	600.00	11.38	5.26
63	AVERAGE RATE OF DISCHARGE (CFS)			800.00	.69	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	7.29	1.12	6.88 4.80	10.69	5.26
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			91.00 61.00		
67	AT OUTFALL, SUMMER - WINTER			104.00 74.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			800.00		
69	- WINTER			800.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O[16]				M	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	1.46	.54	.17		1.40
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	98.10	.35	79.49	135.15	65.45
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					1.50
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					.08
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.50		3.15	22.50	12.60
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES	YES YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	S7	ST	S7
78	RECEIVING WATER BODY					U COOLING POND
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
81	VOLUME (),000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			2 703.48		
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)	2 315.63	1 112.50		2 1,379.70	6 412.11
86	COOLING TOWER(S)					
87	COMBINATIONS[21]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1959	1953	1958 1965	1969 1972	1926 1965
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 16.00	26.00	14.00 16.00	14.00 19.00	12.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	556.00	307.00	826.00	1,515.70	1,077.14
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			826.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)					
93	COOLING PONDS ($1,000)	1,038.92	781.35		4,075.54	280.86
94	COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		8.80	52.14	80.00	28.08
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.38		.33	2.92	2.53

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		17.00	9.90	6.75	22.82
98	COST OF CHEMICAL ADDITIVES ($1,000)	15.10	4.70	11.27	15.57	7.74

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	TEXAS POWER & LIGHT CO.	THE CANAL ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	VALLEY	CANAL	MIAMI FORT	BECKJORD	WEST END	4
5	UTILITY-PLANT CODE	478500-1000	479000-0100	480500-0200	480500-0300	480500-0400	5
6	STATE	TEXAS	MASSACHUSETTS	OHIO	OHIO	OHIO	6
7	COUNTY	FANNIN	BARNSTABLE	HAMILTON	CLERMONT	HAMILTON	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	215 11	120 01	079 05	079 05	079 05	8
9	PLANT CAPACITY (MW)	1,175.50	542.50	393.20	1,221.30	219.25	9
10	ANNUAL GENERATION (MWH) [3]	3,283,800	3,696,500	1,926,000	3,743,000	359,100	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,426	8,874	10,831	15,850	15,362	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			932.10	2,794.10		12
13	AVERAGE HEAT CONTENT (BTU/LB)			11,167	10,555		13
14	AVERAGE SULFUR CONTENT (%)			3.37	3.04		14
15	AVERAGE ASH CONTENT (%)			13.63	18.40		15
16	AVERAGE MOISTURE CONTENT (%)			10.41	9.74		16
17	OIL: CONSUMPTION (1,000 BARRELS)	91.94	5,335.00	9.60	59.40		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,464	146,389	138,000	136,000		18
19	AVERAGE SULFUR CONTENT (%)	.70	.85	.30	.30		19
20	GAS: CONSUMPTION (1,000 MCF)	33,400.08				5,470.10	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,010				1,008	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	1	14	6	6	22
23	- NO. OF WET BOTTOM			4			23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1		5		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]			1	1		27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00	13.00	20.00 21.00	20.00 25.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		90.00	96.00	95.00 98.00		33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH			94.00	92.00 97.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.02	.09	48.51	22.47		39
40	SULFUR OXIDE (1,000 TONS)	.22	10.21	61.58	166.54		40
41	NITROGEN OXIDES (1,000 TONS)	6.72	11.76	9.54	25.28	1.07	41
42	STACKS: - TOTAL NO.	4	1	4	5	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	142.00 189.00	296.00	194.00 375.00	300.00 452.00	206.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.24				44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		.21	76.60	435.70		45
46	SOLD (1,000 TONS) [11]		.19		1.00		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		4,600.00		2,420.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]			535.00	627.00		52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	142.12	184.00	420.00	4,353.00	78.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		57.00	17.00	46.00		55
56	REVENUES FROM SALE OF ASH ($1,000)		12.00		.50		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		137.00	17.00	88.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		12.00		.50		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R RED	O CAPE COD CANAL	S OHIO	S OHIO	S OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	4.66	370.00	408.00	921.00	296.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)		370.00	408.00	921.00	296.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.66	3.18	3.51	7.92	2.55	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL JAN	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		76.00 38.00	83.00 44.30	84.00 45.00	84.00 45.00	66
67	AT OUTFALL, SUMMER - WINTER		101.00 68.00	97.00 66.00	94.00 61.00	90.00 54.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,630,000.00	113,000.00	113,000.00	113,000.00	68
69	- WINTER		1,650,000.00	282,000.00	282,000.00	282,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.13				.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	101.91		84.50	312.00		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			18.50		9.10	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		1.56	75.00	54.00	.30	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	PS	77
78	RECEIVING WATER BODY			S OHIO	S OHIO		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING			10.00 10.70	9.00 10.10	10.30	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			450.00	15.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			6,480.00	2,427.00	4,093.50	81
82	- ASH SETTLING			360,000.00	72,317.30		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			6 519.20	4 1,221.30	6 328.65	83
84	ONCE THROUGH COOLING (SALINE)		1 542.50				84
85	COOLING POND(S)	3 1,175.49					85
86	COOLING TOWER(S)						86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1971	1968	1925 1960	1952 1969	1918	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST [22]	14.00	28.00	10.00 19.00	17.00 23.00	10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,295.00	350.00	918.00	1,146.00	540.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		373.00	918.00	1,146.00	540.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)	918.21	1,500.00	402.00	1,116.00	336.00	93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	.66	37.00	83.00	95.00	50.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		8.00	14.00	8.00	.10	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.25	6.00	63.00	54.00	100.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	21.39	5.00	16.00	49.00	3.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	THE CONNECTICUT LIGHT & POWER CO.	THE CONNECTICUT LIGHT & POWER CO.	THE CONNECTICUT LIGHT & POWER CO.	THE DAYTON POWER & LIGHT CO.	THE DAYTON POWER & LIGHT CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	DEVON	MONTVILLE	NORWALK HARBOR	TAIT	HUTCHINGS	4
5	UTILITY-PLANT CODE	5	481000-0300	481000-0500	481000-0600	481500-0200	481500-0300	5
6	STATE	6	CONNECTICUT	CONNECTICUT	CONNECTICUT	OHIO	OHIO	6
7	COUNTY	7	NEW HAVEN	NEW LONDON	FAIRFIELD	MONTGOMERY	MONTGOMERY	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	042 01	041 01	043 01	173 05	173 05	8
9	PLANT CAPACITY (MW)	9	454.00	577.40	326.40	448.60	414.00	9
10	ANNUAL GENERATION (MWH)[3]	10	2,313,900	2,378,800	1,953,600	1,574,800	1,593,700	10
11	PLANT HEAT RATE (BTU/KWH)[4]	11	11,653	11,526	9,898	10,965	10,588	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	47.50		38.50	655.75	677.80	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,976		11,608	11,703	12,312	13
14	AVERAGE SULFUR CONTENT (%)	14	2.65		2.60	4.25	4.50	14
15	AVERAGE ASH CONTENT (%)	15	18.25		16.20	12.44	9.47	15
16	AVERAGE MOISTURE CONTENT (%)	16	11.25		7.80	7.36	6.42	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	4,251.80	4,562.88	3,089.00			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,187	143,074	143,316			18
19	AVERAGE SULFUR CONTENT (%)	19	.58	.69	.82			19
20	GAS: CONSUMPTION (1,000 MCF)	20				56.90	139.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				1,045	1,045	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	12	8	2	6	6	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	3			6	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27	4		2	6	3	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	15.00	2.00 23.00	22.00	20.00 25.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					86.50 90.16	30
31	TESTED, LOW - HIGH	31					30.40 81.60	31
32	ESTIMATED, LOW - HIGH	32					29.80 80.60	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33	86.00 98.00	91.00 97.00	99.00	95.00 97.50	99.50	33
34	TESTED, LOW - HIGH	34	95.60 98.70	94.00 99.40	98.70 99.40	67.90 93.20	99.60 99.90	34
35	EST., LOW - HIGH	35	64.00			71.00 94.00	99.90	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	2.99	.51	.95	7.55	12.57	39
40	SULFUR DIOXIDE (1,000 TONS)	40	11.00	13.17	10.25	16.56	11.96	40
41	NITROGEN OXIDES (1,000 TONS)	41	9.73	10.36	7.10	6.57	6.13	41
42	STACKS: - TOTAL NO.	42	7	6	1	4	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	220.00 357.50	171.00 390.00	350.00	307.00	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44	.30		.29			44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	.20		6.48	81.40	49.10	45
46	SOLD (1,000 TONS)[11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					372.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	2,195.00	539.00			2,685.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52	278.00		1,546.00	1,334.00		52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	263.00	931.00	276.00	130.00	288.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	23.00		21.30	195.00	160.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56	1.10					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	80.60	101.30	66.10	195.00	162.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60	1.10					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R HOUSATONIC	R THAMES	O LONG IS SOUND	R GREAT MIAMI	R GREAT MIAMI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	625.50	608.00	470.00	296.90	315.10	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	625.50	608.00	470.00	296.20	315.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	5.38	5.23	4.04	2.55 .70	2.72 .40	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG DEC	AUG DEC	AUG DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	74.00 37.00	74.00 47.00	72.00 43.00	86.00 45.00	89.50 51.60	66
67	AT OUTFALL, SUMMER - WINTER	67	86.00 48.00	96.00 77.00	88.00 74.00	100.00 64.00	104.80 76.50	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68				1,137.00	1,195.00	68
69	- WINTER	69				5,431.00	5,855.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, CB[16]	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	3.30	.50	.60	.08	3.25 .30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1.60	.20	4.20	.07	.01	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				33.88	38.05	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	32.00		55.35	44.00	132.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES	YES YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77	ST	ST	ST	PS	SW	77
78	RECEIVING WATER BODY	78					O GREAT MIAMI	78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	79	7.00		7.30	8.00	8.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				10.30	20.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82	25,000.00		120,000.00	4,600.00	22,100.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83					7 444.10	6 414.00		83
84	ONCE THROUGH COOLING (SALINE)	84	7 454.00	6 559.00	2 326.40					84
85	COOLING POND(S)	85								85
86	COOLING TOWER(S)	86								86
87	COMBINATIONS[21]	87								87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924 1958	1923 1971	1960 1963	1942 1959	1948 1953			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	11.70 17.30	25.00		12.00 15.00	13.40 16.50			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	370.00		440.00	595.60	579.00			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	887.70			595.60	579.00			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	1,345.00		1,579.00	1,198.00	983.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	139.00	14.70	77.10	79.00	89.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	3.50	19.00	11.10	5.00	14.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	138.00	13.60	29.40	15.00	17.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	17.30	2.10	8.35	3.00	2.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	THE DAYTON POWER & LIGHT CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	
NAME OF PLANT	STUART	CONNERS CREEK	DELRAY	FERMI	HARBOR BEACH	
UTILITY-PLANT CODE	481500-0400	482000-0200	482000-0400	482000-0500	482000-0700	
STATE	OHIO	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	
COUNTY	ADAMS	WAYNE	WAYNE	MONROE	HURON	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	103 05	123 04	123 04	124 04	125 04	
PLANT CAPACITY (MW)	1,830.60	540.00	375.00	156.00	121.00	
ANNUAL GENERATION (MWH)[3]	9,349,500	2,606,700	1,485,200	334,100	484,500	
PLANT HEAT RATE (BTU/KWH)[3]	8,889	13,070	17,103	13,896	10,509	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	3,690.30	520.00			211.00	
AVERAGE HEAT CONTENT (BTU/LB)	11,224	11,513			11,612	
AVERAGE SULFUR CONTENT (%)	1.59	2.23			3.10	
AVERAGE ASH CONTENT (%)	14.04	13.82			14.05	
AVERAGE MOISTURE CONTENT (%)	7.97	6.94			6.91	
OIL: CONSUMPTION (1,000 BARRELS)	48.30	625.37	3,375.60	806.28	33.39	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	136,598	149,579	137,000	137,000	
AVERAGE SULFUR CONTENT (%)	.10	.26	1.89	.30	.30	
GAS: CONSUMPTION (1,000 MCF)		11,359.00	11,619.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,019	362			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	14	12	1	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		11	12			
- NO. WITH ELECTROSTATIC PRECIPITATORS	3				1	
- NO. WITH COMBINATION PRECIPITATORS[4]		4				
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00	24.50 25.00	25.00	10.00	20.00	
TESTED, LOW - HIGH			80.00			
ESTIMATED, LOW - HIGH		80.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	98.00				
TESTED, LOW - HIGH	84.00 98.00	98.60 98.90			99.60	
EST., LOW - HIGH	95.00	99.00			99.40	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					99.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	21.96	1.15	.11	.14	.25	
SULFUR DIOXIDE (1,000 TONS)	115.74	35.99	21.52	.81	1.85	
NITROGEN OXIDES (1,000 TONS)	33.28	10.37	9.71	1.73	1.97	
STACKS: - TOTAL NO.	3	8	6	1	1	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	600.00	452.00	270.00	196.50	200.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	464.00	111.40			29.20	
SOLD (1,000 TONS)[11]		29.40				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		1,000.00	1,928.00			
ELECTROSTATIC PRECIPITATORS ($1,000)	4,379.00				455.00	
COMBINATION PRECIPITATORS ($1,000)[4]		2,262.00				
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	6,977.00	443.00	104.00	110.00	241.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	400.00	229.00				
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	400.00	39 I.00	8.00	6.00	11.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		4 .00				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	OHIO	DETROIT	DETROIT	LAKE ERIE	LAKE ERIE	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,524.00	600.00	775.00	54.00	200.00	
AVERAGE RATE OF DISCHARGE (CFS)	1,522.50	600.00	775.00	54.00	200.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.50 13.11	0.00	0.67	.72	1.72	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 45.00	59.00 34.00	70.00 39.00	68.00 39.00	56.00 36.00	
AT OUTFALL, SUMMER - WINTER	108.00 75.00	74.00 51.00	89.00 66.00	81.00 59.00	67.00 47.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	57,000.00	213,000.00	213,000.00			
- WINTER	213,000.00	209,000.00	209,000.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.00	.69	9.75		.00	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	715.00		740.41			
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.00	30.00	8.00	4.00	2.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	PS	ST	PS	
RECEIVING WATER BODY	OHIO	DETR		ERIE		
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.60	8.50 .00	11.00	8.50	8.50 6.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00	200.00			30.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		1,480.00	6,730.00	93.50	155.00	
- ASH SETTLING	577,500.00	40,000.00			7,400.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 1,830.60	2 566.00	2 775.00	1 156.00	1 121.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970 1972	1918 1951	1929 1964	1966	1968	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	22.00	14.00 19.00	13.00 19.00	20.00	13.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,443.00	1,680.00	1,710.00	290.00	200.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,443.00	1,680.00	1,710.00	290.00	200.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	12,803.00	1,444.00	451.00	912.00	362.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	263.00	360.00	69.00	10.00	9.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	3.00	1.00		1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	73.00	762.00	305.00	190.00	131.00	
COST OF CHEMICAL ADDITIVES ($1,000)	109.00	1.00	78.00	6.00	1.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	
4	NAME OF PLANT	MARYSVILLE	PENNSALT	RIVER ROUGE	ST. CLAIR	TRENTON CHANNEL	
5	UTILITY-PLANT CODE	482000-0800	482000-1000	482000-1200	482000-1400	482000-1600	
6	STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	
7	COUNTY	ST. CLAIR	WAYNE	WAYNE	ST. CLAIR	WAYNE	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	123 04	123 04	123 04	123 04	123 04	
9	PLANT CAPACITY (MW)	230.00	37.00	933.00	1,903.00	1,076.00	
10	ANNUAL GENERATION (MWH)[3]	1,075,400	72,400	5,227,800	12,386,800	6,202,600	
11	PLANT HEAT RATE (BTU/KWH)[3]	14,630		9,510	9,110	10,670	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	648.00	152.00	1,764.00	4,536.00	2,116.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,060	11,904	12,323	11,917	11,910	
14	AVERAGE SULFUR CONTENT (%)	2.49	1.13	3.16	3.01	2.30	
15	AVERAGE ASH CONTENT (%)	12.55	11.42	10.98	13.13	12.15	
16	AVERAGE MOISTURE CONTENT (%)	6.99	7.65	6.12	5.93	6.13	
17	OIL: CONSUMPTION (1,000 BARRELS)		54.76	978.13	636.74	283.64	
18	AVERAGE HEAT CONTENT (BTU/GAL)		137,066	142,297	150,264	136,832	
19	AVERAGE SULFUR CONTENT (%)		.25	2.13	2.10	.30	
20	GAS: CONSUMPTION (1,000 MCF)	103.00		9,402.00	167.00	16,300.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,007		95	598	1,021	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	4	3	7	16	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS		2				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4			2	16	
27	- NO. WITH COMBINATION PRECIPITATORS[4]		2	3	5		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	22.00 25.00	22.00	18.00	12.00 23.00	18.00 24.50	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		75.00				
31	TESTED, LOW - HIGH		71.00				
32	ESTIMATED, LOW - HIGH		53.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.60	97.00	97.40 97.80	91.60 96.60	85.00 99.60	
34	TESTED, LOW - HIGH	99.50	96.50 98.50	90.00 97.20	88.50 98.70	99.00 99.20	
35	EST., LOW - HIGH	96.20 99.50	96.00 98.00	90.00 97.20	82.00 96.40	95.00 98.50	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.87	.84	7.08	21.72	5.60	
40	SULFUR DIOXIDE (1,000 TONS)	31.75	3.63	117.53	270.97	95.76	
41	NITROGEN OXIDES (1,000 TONS)	5.85	1.49	19.96	55.31	22.67	
42	STACKS: - TOTAL NO.	6	4	3	7	7	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	201.00 300.00	223.00	389.00 425.00	250.00 600.00	239.00 563.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	71.50	16.50	186.10	444.80	247.70	
46	SOLD (1,000 TONS)[11]			11.10	26.50	68.00	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	3,144.00			5,472.00	7,169.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]		1,056.00	5,712.00	6,095.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	112.00	40.00	617.00	2,794.00	1,690.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	154.00	40.00	190.00	559.00	235.00	
56	REVENUES FROM SALE OF ASH ($1,000)	14.00		15.00		157.00	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	264.00	75.00	344.00	1,320.00	543.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	14.00		15.00	41.00	157.00	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	ST. CLAIR	DETROIT	DETROIT	ST. CLAIR	DETROIT	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	430.00	26.80	1,007.00	1,854.00	1,400.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	430.00	25.40	1,007.00	1,854.00	1,400.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.70	1.40 .49	.66	15.54	12.04	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	62.00 37.00	70.00 42.00	70.00 41.00	62.00 45.00	62.00 36.00	
67	AT OUTFALL, SUMMER - WINTER	70.00 56.00	90.00 62.00	85.00 54.00	76.00 60.00	80.00 50.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	206,000.00	213,000.00	213,000.00	206,000.00	213,000.00	
69	- WINTER	208,000.00	209,000.00	209,000.00	208,000.00	209,000.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	1.20	1.01	.50	.75	6.00	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.35	.80			675.56	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		122.05		25.63	160.00	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			216.08	55.22		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.00		605.00	27.00	249.30	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD (S, ST, SW, OT)[18]	PS	PS	PS	PS	PS	
78	RECEIVING WATER BODY						
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	11.00 8.00	11.00 8.50	8.50 8.00	11.00 8.00	11.00 8.00	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	500.00	50.00	15.00	15.00	10.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	580.00	6,900.00	840.00	3,380.00	2,040.00	
82	- ASH SETTLING	9,900.00	12,300.00	13,000.00	18,800.00	16,930.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 300.00	7 37.00	5 933.00	7 1,903.00	6 1,076.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922 1947	1964	1956 1958	1953 1969	1924 1968	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	7.00 15.00		15.00 17.00	15.00 20.00	8.00 25.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,047.00	67.00	1,004.00	2,070.00	2,132.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	1,047.00	67.00	1,004.00	2,070.00	2,132.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	136.00	16.00	2,238.00	4,031.00	935.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	62.00	1.00	19.00	36.00	55.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.00	29.00		21.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	677.00	284.00	756.00	1,119.00	1,248.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	24.00	6.00	22.00	22.00	70.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE HARTFORD ELECTRIC LIGHT CO.	THE HARTFORD ELECTRIC LIGHT CO.	THE KANSAS POWER & LIGHT CO.	
NAME OF PLANT	WYANDOTTE	MONROE	MIDDLETOWN	SOUTH MEADOW	HUTCHINSON	
UTILITY-PLANT CODE	482000-1700	482000-1800	483000-0300	483000-0400	483500-0300	
STATE	MICHIGAN	MICHIGAN	CONNECTICUT	CONNECTICUT	KANSAS	
COUNTY	WAYNE	MONROE	MIDDLESEX	HARTFORD	RENO	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	123 04	124 06	042 01	042 01	099 11	
PLANT CAPACITY (MW)	54.00	817.00	422.00	216.75	257.20	
ANNUAL GENERATION (MWH)[3]	37,600	3,521,300	2,565,300	608,900	1,451,200	
PLANT HEAT RATE (BTU/KWH)[3]		9,590	9,896	14,514	11,031	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	284.00	1,298.00				
AVERAGE HEAT CONTENT (BTU/LB)	11,918	12,696				
AVERAGE SULFUR CONTENT (%)	.78	2.65				
AVERAGE ASH CONTENT (%)	11.02	11.79				
AVERAGE MOISTURE CONTENT (%)	8.02	4.12				
OIL: CONSUMPTION (1,000 BARRELS)	152.55	141.61	4,165.87	1,933.50	77.00	
AVERAGE HEAT CONTENT (BTU/GAL)	137,642	136,000	144,000	144,608	151,000	
AVERAGE SULFUR CONTENT (%)	.25	.31	.78	.79	1.50	
GAS: CONSUMPTION (1,000 MCF)	1,731.00			.39	15,520.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,020			1,000	1,005	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	1	4	6	4	
- NO. OF WET BOTTOM	4		3			
- NO. WITH FLY ASH REINJECTION			1			
- NO. WITH MECHANICAL PRECIPITATORS				3		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	1	1			
- NO. WITH COMBINATION PRECIPITATORS[4]	2		2			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00 26.00	18.00	9.00 13.00	12.00 25.00	6.00 15.00	
TESTED, LOW - HIGH				37.00		
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.60	99.62	97.00 98.50			
TESTED, LOW - HIGH	98.50 98.90	95.00	97.20 98.80			
EST., LOW - HIGH	97.00 99.20	96.00	97.00	35.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.26	5.21	.23	.25	.01	
SULFUR DIOXIDE (1,000 TONS)	4.61	68.83	10.78	5.12	.39	
NITROGEN OXIDES (1,000 TONS)	4.93	11.99	7.19	4.26	3.20	
STACKS: - TOTAL NO.	5	1	3	5	5	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	229.00	600.00	266.00	164.90 208.50	75.00 148.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.76	.19		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	30.80	148.60	.29	.33		
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				280.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	1,170.00	6,749.00	511.00			
COMBINATION PRECIPITATORS ($1,000)[4]	994.00		580.00			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		2,793.00		45.20	44.80	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	102.00		96.40	16.13		
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	251.00	259.00	137.97	55.82		
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C DETROIT	C RAISIN	C CONNECTICUT	C CONNECTICUT	M	
AVERAGE RATE OF WITHDRAWAL (CFS)	152.20	1,026.00	340.50	416.00	6.04	
AVERAGE RATE OF DISCHARGE (CFS)	112.90	1,026.00	340.50	416.00	1.92	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.31 39.30	6.82	2.93	3.59	4.10	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	70.00 42.00	80.00 34.00	79.00 35.00	82.00 38.00	60.00 60.00	
AT OUTFALL, SUMMER - WINTER	90.00 62.00	96.00 51.00	101.00 69.00	96.00 80.00	85.00 40.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	213,000.00		8,200.00	7,870.00	42.00	
- WINTER	209,000.00		26,000.00	24,700.00	113.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	7.10		.04	.70	.40	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				.99	1.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP	192.75					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	36.68					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	30.00	126.00	60.00	105.00	24.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	ST	PS	ST	
RECEIVING WATER BODY			O LEACHING FIELD		O MAIN FIELD	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	11.00 8.50		6.60		9.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00	14.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	12,500.00					
- ASH SETTLING	24,000.00	18,000.00	70,455.70		15.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	8 54.30	1 817.00	3 422.00	6 221.75		
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS[21]					4 252.20	
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1971	1954 1964	1921 1950	1949 1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00 20.00	21.80	18.00 21.00	12.00	10.90 14.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	46.00	746.00	440.00	508.00	402.20	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	46.00	746.00	440.00	508.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)		3,226.00				
COOLING TOWERS ($1,000)					1,918.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.00	76.00	135.59	111.30	48.00	
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	5.00	6.32	10.00	34.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	570.00	788.00	51.47	18.44	19.00	
COST OF CHEMICAL ADDITIVES ($1,000)	30.00	72.00	27.38	4.22	2.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

ABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE MONTANA POWER CO.	THE MONTANA POWER CO.		1
2								2
3								3
4	NAME OF PLANT	LAWRENCE	ABILENE	TECUMSEH	PIPO	COPETTE		4
5	UTILITY-PLANT CODE	483500-0500	483500-0600	483500-0700	484500-0400	484500-0700		5
6	STATE	KANSAS	KANSAS	KANSAS	MONTANA	MONTANA		6
7	COUNTY	DOUGLAS	DICKINSON	SHAWNEE	YELLOWSTONE	YELLOWSTONE		7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	095 10	096 10	095 10	140 10	140 10		8
9	PLANT CAPACITY (MW)	613.35	33.75	346.10	65.00	172.80		9
10	ANNUAL GENERATION (MWH) 3/	2,562,600	99,000	1,312,800	12,400	806,100		10
11	PLANT HEAT RATE (BTU/KWH) 3/	10,834	14,329	14,247	14,565	10,384		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	113.00		72.00		449.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,076		12,242		8,654		13
14	AVERAGE SULFUR CONTENT (%)	3.87		3.90		.62		14
15	AVERAGE ASH CONTENT (%)	13.10		12.80		8.18		15
16	AVERAGE MOISTURE CONTENT (%)	6.30		6.00		24.63		16
17	OIL: CONSUMPTION (1,000 BARRELS)	256.00	24.00	99.00	14.00			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,448	150,000	144,525	147,024			18
19	AVERAGE SULFUR CONTENT (%)	1.50	1.50	1.50	1.60			19
20	GAS: CONSUMPTION (1,000 MCF)	23,316.00	1,296.00	16,553.00	64.00	519.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,019	969	988	1,160	1,189		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	6	2	9	1	1		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS			2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					1		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/							27
28	- NO. WITH DESULFURIZATION SYSTEMS	2						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00 20.00	20.00	8.00 30.00	20.00	21.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			65.00				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH			65.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					97.00		33
34	TESTED, LOW - HIGH					95.20		34
35	EST., LOW - HIGH					98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	83.00						36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH	65.00						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	12.62		1.19		.63		39
40	SULFUR DIOXIDE (1,000 TONS)	9.61	.13	5.65	.06	5.28		40
41	NITROGEN OXIDES (1,000 TONS)	6.02	.31	3.97	.05	4.14		41
42	STACKS: - TOTAL NO.	6	2	8	1	1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	123.00 354.80	186.00	153.00 303.00	150.00	350.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	10.30						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	20.40		8.30		35.70		45
46	SOLD (1,000 TONS) 11/					6.60		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			170.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)					1,030.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	333.00	31.30	249.00	39.00	269.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	37.00		18.00		16.50		55
56	REVENUES FROM SALE OF ASH ($1,000)					16.50		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	75.00						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	112.00		18.00		16.50		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					16.50		60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTE 5)	W KANSAS	S SMOKY HILL	S KANSAS	C YELLOWSTONE	C YELLOWSTONE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	7.60	49.50	70.60		90.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	1.70	49.50	67.00		90.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.90	.10	3.60			.77	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC			JUN JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 36.00	88.00 35.00	65.50		65.50 34.00		66
67	AT OUTFALL, SUMMER - WINTER	92.00 83.00	99.00 58.00	99.00 69.00		80.00 79.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,885.00	701.00	3,750.00	33,000.00	33,000.00		68
69	- WINTER	8,550.00	503.00	6,880.00	2,640.00	2,640.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.10	2.70 .30	.05	.15		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	29.10	2.33	.30	.02	.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			444.81 49.42				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			8.39 .90				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	52.60		32.00				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	UT	SW	SW	UT	UT		77
78	RECEIVING WATER BODY	P KANSAS		S KANSAS				78
79	POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING	10.50 9.00	9.50	10.00 9.50		8.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	25.00 100.00		500.00		300.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	50.00	21.00	265.00				81
82	- ASH SETTLING	3,850.00		7,500.00		400.00		82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)		2 33.75	4 115.00	1 49.00	1 172.80		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)	5 613.35		2 231.10				86
87	COMBINATIONS 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960 1971	1940 1947	1927 1962	1951	1968		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	11.80 21.40	9.67 11.00	12.30 17.20	24.20	28.80		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	395.80	103.61	605.60	75.70	115.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		103.61	280.30	75.70	115.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)		193.00	555.00	113.00	396.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	4,533.00		1,644.00				94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	38.00	13.00	75.00	1.00	2.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	118.00		26.00				96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.00	15.00	70.00	3.00	11.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	11.00	1.30	42.00	.50	1.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	THE NARRAGANSETT ELECTRIC CO.	THE NARRAGANSETT ELECTRIC CO.	THE POTOMAC EDISON CO.	THE TOLEDO EDISON CO.	THE TOLEDO EDISON CO.	
4 NAME OF PLANT	MANCHESTER STREET	SOUTH STREET	SMITH	ACME	BAY SHORE	
5 UTILITY-PLANT CODE	485000-0100	485000-0300	486500-0300	488000-0100	488000-0200	
6 STATE	RHODE ISLAND	RHODE ISLAND	MARYLAND	OHIO	OHIO	
7 COUNTY	PROVIDENCE	PROVIDENCE	WASHINGTON	LUCAS	LUCAS	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	120 01	120 01	113 02	124 04	124 04	
9 PLANT CAPACITY (MW)	132.00	145.90	139.50	321.00	638.00	
10 ANNUAL GENERATION (MWH) 3/	568,500	593,500	569,600	803,700	4,191,800	
11 PLANT HEAT RATE (BTU/KWH) 3/	12,273	13,647	13,323	13,383	9,301	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)			255.10	394.00	1,617.80	
13 AVERAGE HEAT CONTENT (BTU/LB)			12,035	11,639	12,013	
14 AVERAGE SULFUR CONTENT (%)			1.02	2.57	2.02	
15 AVERAGE ASH CONTENT (%)			12.74	13.66	11.90	
16 AVERAGE MOISTURE CONTENT (%)			6.82	7.00	6.20	
17 OIL: CONSUMPTION (1,000 BARRELS)	1,107.90	1,350.60	2.97	164.00	20.60	
18 AVERAGE HEAT CONTENT (BTU/GAL)	146,264	146,092	139,000	155,307	138,484	
19 AVERAGE SULFUR CONTENT (%)	.90	.91	.25	1.09	.60	
20 GAS: CONSUMPTION (1,000 MCF)				863.00		
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)				518		

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3	10	6	10	4	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS	3	2	4			
26 - NO. WITH ELECTROSTATIC PRECIPITATORS		2	2	3	2	
27 - NO. WITH COMBINATION PRECIPITATORS 4/				3	2	
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00 12.00	40.00 20.00	50.00 15.00	25.00 17.00	23.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	86.00	83.00			
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		90.00	94.00 99.50	97.40 99.50	98.50 99.50	
34 TESTED, LOW - HIGH			97.50 99.70	97.40 98.70	95.10	
35 EST., LOW - HIGH			97.50 99.70	96.50 99.50	96.70 99.50	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.09	.07	.15	.78	2.12	
40 SULFUR DIOXIDE (1,000 TONS)	3.47	4.12	5.10	20.68	63.46	
41 NITROGEN OXIDES (1,000 TONS)	2.56	2.98	2.30	3.49	13.56	
42 STACKS: - TOTAL NO.	2	5	8	4	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	207.00 208.00	107.00 325.00	132.00 200.00	246.00 248.00	250.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.05	.07				
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	.02		32.24	53.90	188.20	
46 SOLD (1,000 TONS) 11/	.02		.94			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	179.40	101.90	180.00			
51 ELECTROSTATIC PRECIPITATORS ($1,000)		256.90	1,594.00	1,619.00	803.80	
52 COMBINATION PRECIPITATORS ($1,000) 4/				680.00	937.20	
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	40.80	279.40	59.00	194.10	839.20	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	5.00	13.00	55.10	226.00	306.30	
56 REVENUES FROM SALE OF ASH ($1,000)	4.73		.94			
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	16.65	43.40	55.10	226.00	332.40	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	4.73		.94			

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B PROVIDENCE	B PROVIDENCE	E ROSEMAR	E MAUMEE	B MAUMEE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	340.00	310.00	185.00	299.00	1,087.70	
63 AVERAGE RATE OF DISCHARGE (CFS)	340.00	322.00	184.90	299.00	1,087.70	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.92	2.67	1.42 .10	2.57	9.35	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	OEC	SEP JAN	JUL DEC	JUL DEC	AUG DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	72.00 37.00	72.00 35.00	80.00 36.00	82.00 40.00	79.90 43.90	
67 AT OUTFALL, SUMMER - WINTER	84.00 49.00	85.00 52.00	94.00 50.00	96.00 51.00	86.50 54.20	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	340.00	310.00	1,190.00	3,555.00		
69 - WINTER	340.00	310.00	3,340.00	11,550.00		
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.74	35.43	.04	.64	.06	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.09	.89	50.75	26.95	18.03	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP			4.75			
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP			.50			
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.94	3.13	.05	62.00	420.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES	YES	YES YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	PS	JT	
78 RECEIVING WATER BODY					B MAUMEE	
79 POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING						
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			10.00 8.50	7.90	6.16	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			4.20	81.60	62.00	
82 - ASH SETTLING			30.97 20,968.00	.07	17,000.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)			4 181.00	5 314.50	4 638.00	
84 ONCE THROUGH COOLING (SALINE)	3 146.00	4 168.00				
85 COOLING PONDS(S)						
86 COOLING TOWER(S)						
87 COMBINATIONS 21/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1947	1924 1953	1923 1957	1918 1951	1955 1968	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00 17.00	30.00	12.00 18.00	14.00 21.50	9.50 13.40	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	360.00	399.00	349.50	607.00	1,149.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	399.00	399.00	349.50	607.00	1,149.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	945.00	2,145.00	657.00	1,156.00	3,298.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.50	1.00	61.60	30.00	13.20	
96 COST OF CHEMICAL ADDITIVES ($1,000)	1.71	1.28		5.00	28.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.00	.50	52.60	55.00	82.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	2.00	10.82	7.00	10.50	6.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	THE TUCSON GAS & ELECTRIC CO.	THE TUCSON GAS & ELECTRIC CO.	UGI CORP LUZERNE ELEC. DIVISION	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.	
4	NAME OF PLANT	OEMOSS PETRIE	IRVINGTON	HUNLOCK CREEK	BRIDGEPORT HARBOR	ENGLISH	
5	UTILITY-PLANT CODE	488500-0100	488500-0200	489000-0100	489500-0100	489500-0200	
6	STATE	ARIZONA	ARIZONA	PENNSYLVANIA	CONN	CONN	
7	COUNTY	PIMA	PIMA	LUZERNE	FAIRFIELD	NEW HAVEN	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	015 15	015 15	151 02	043 01	042 01	
9	PLANT CAPACITY (MW)	104.50	504.54	93.00	660.50	146.30	
10	ANNUAL GENERATION (MWH)[3]	270,200	2,378,200	367,100	4,060,800	526,600	
11	PLANT HEAT RATE (BTU/KWH)[3]	13,430	10,416	16,237	9,995	16,952	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			323.70			
13	AVERAGE HEAT CONTENT (BTU/LB)			8,749			
14	AVERAGE SULFUR CONTENT (%)			.70			
15	AVERAGE ASH CONTENT (%)			25.25			
16	AVERAGE MOISTURE CONTENT (%)			13.95			
17	OIL: CONSUMPTION (1,000 BARRELS)	34.87	459.50	46.50	6,603.00	1,456.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	152,259	147,508	138,500	146,309	146,039	
19	AVERAGE SULFUR CONTENT (%)	.74	.64	.12	.58	.80	
20	GAS: CONSUMPTION (1,000 MCF)	3,166.00	19,512.00				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,076	1,076				

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	4	6	3	14	
23	- NO. OF WET BOTTOM			3	2		
24	- NO. WITH FLY ASH REINJECTION			2	3		
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				3	2	
27	- NO. WITH COMBINATION PRECIPITATORS[4]			2			
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00 15.00	7.50	40.00	12.00 30.00	19.00 30.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			93.80 95.00	97.50 99.50	95.00	
34	TESTED, LOW - HIGH			91.30			
35	EST., LOW - HIGH			85.00 90.00	43.00 66.00	74.00 75.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.91	.08	13.34	.43	.16	
40	SULFUR DIOXIDE (1,000 TONS)			4.46	13.29	3.91	
41	NITROGEN OXIDES (1,000 TONS)	.72	4.81	4.74	14.56	3.21	
42	STACKS: - TOTAL NO.	4	4	3	3	6	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	101.00 198.00	130.00 146.00	203.00 338.00	203.00 498.00	233.00 235.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]			65.00	.50	.20	
46	SOLD (1,000 TONS)[11]				.19		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)				2,167.30	247.94	
52	COMBINATION PRECIPITATORS ($1,000)[4]			1,633.00			
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)			141.00	914.25	155.93	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			272.00	60.00	15.00	
56	REVENUES FROM SALE OF ASH ($1,000)				2.00		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			272.00	170.00	15.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				2.00		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	W	S SUSQUEHANNA	O BRIDGEPORT HBR	R MILL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.60	4.90	180.00	665.30	288.93	
63	AVERAGE RATE OF DISCHARGE (CFS)	.48	1.30	180.00	665.30	288.93	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.95	5.60	1.55 180.00	5.72	2.48	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG DEC	AUG JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			76.00 41.00	78.00 44.00	86.00 52.00	
67	AT OUTFALL, SUMMER - WINTER	90.00 70.00	110.00 95.00	92.00 52.00	90.00 70.00	95.00 63.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			4,500.00	155.81	83.48	
69	- WINTER			32,000.00	61.92	113.58	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]			H			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.00 .02	17.00 .05	1.50	.85	7.85	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.50	.75	.90		12.85	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.00	10.00	10.00			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	DT	PS/ST	ST/SW	
78	RECEIVING WATER BODY			R SUSQUEHANNA		R MILL	
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING			6.80	6.50		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			80.00	3,000.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING			150,000.00			

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			3 97.60			
84	ONCE THROUGH COOLING (SALINE)				1 399.50	8 146.25	
85	COOLING POND(S)						
86	COOLING TOWER(S)	4 104.50	4 504.50				
87	COMBINATION[21]				2 261.00		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1954	1958 1967	1925 1959	1957 1968	1929 1953	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 18.00	21.00 28.00	10.00 15.00	11.20 17.90	7.40 18.20	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	216.60	402.00	219.00	837.01	581.08	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				837.01	581.08	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			733.00	3,398.63	873.70	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)	587.00	1,089.00		100.18		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)				115.50	161.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.30	21.40	3.60	7.60	11.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)				152.30	100.70	
98	COST OF CHEMICAL ADDITIVES ($1,000)	.50	1.10	1.80	36.70	11.60	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	THE UNITED ILLUMINATING CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	
4	NAME OF PLANT	STEEL	ASHLEY	CAHOKIA	MERAMEC	SIOUX	
5	UTILITY-PLANT CODE	489500-0400	512500-0100	512500-0200	512500-0400	512500-0700	
6	STATE	CONN	MISSOURI	ILLINOIS	MISSOURI	MISSOURI	
7	COUNTY	FAIRFIELD	CITY OF ST. LOUIS	ST. CLAIR	ST. LOUIS	ST. CHARLES	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 01	070 07	070 07	070 07	070 07	
9	PLANT CAPACITY (MW)	155.50	70.00	300.00	923.00	1,103.00	
10	ANNUAL GENERATION (MWH)[3]	510,600	43,800	563,100	5,021,200	3,711,600	
11	PLANT HEAT RATE (BTU/KWH)[3]	18,736		18,738	10,260	10,252	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1.70	221.70	2,182.20	1,704.00	
13	AVERAGE HEAT CONTENT (BTU/LB)		11,689	11,168	11,629	11,047	
14	AVERAGE SULFUR CONTENT (%)		1.32	3.34	2.09	3.35	
15	AVERAGE ASH CONTENT (%)		7.67	10.40	9.29	15.35	
16	AVERAGE MOISTURE CONTENT (%)		11.71	11.70	10.04	7.53	
17	OIL: CONSUMPTION (1,000 BARRELS)	1,556.00	812.10	887.10		12.20	
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,385	150,333	153,294		138,000	
19	AVERAGE SULFUR CONTENT (%)	.61	2.08	2.34		.26	
20	GAS: CONSUMPTION (1,000 MCF)				149.20		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,034		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	27	5	22	4	2	
23	- NO. OF WET BOTTOM					2	
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	7	5	8	4	2	
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]				1		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	19.00 30.00	23.00	23.00	23.00	23.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	90.00	99.00	97.50 98.00	98.00	
34	TESTED, LOW - HIGH		89.10	84.00 98.30	97.20 98.80	97.90	
35	EST., LOW - HIGH	30.00 75.00	97.00	95.00	98.00	98.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.17	.92	1.13	3.46	.53	
40	SULFUR DIOXIDE (1,000 TONS)	3.13	5.93	21.33	87.68	110.69	
41	NITROGEN OXIDES (1,000 TONS)	3.43	1.80	3.95	19.67	46.68	
42	STACKS: - TOTAL NO.	7	4	6	4	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	175.00 162.00	180.00 186.00	329.00	250.00 350.00	500.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.10	.10	22.60	230.20	264.50	
46	SOLD (1,000 TONS)[11]				127.00		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	385.55	364.00	847.00	2,973.00	1,373.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	191.48	92.00	318.00	850.00	1,525.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	25.00	.10	69.90	135.60	124.50	
56	REVENUES FROM SALE OF ASH ($1,000)				197.00		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	25.00		787.40	136.10	4,857.70	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				197.30		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	O BRIDGEPORT HBR	S MISSISSIPPI	S MISSISSIPPI	C MISSISSIPPI	S MISSISSIPPI	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	201.91	25.00	200.00	610.00	426.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	201.91	25.00	200.00	610.00	426.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.74	.22	1.72	5.25	3.66	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 44.00	86.00 32.00	84.00 38.00	81.00 36.00	81.00 38.00	
67	AT OUTFALL, SUMMER - WINTER	102.00 60.00	108.00 53.00	98.00 50.00	105.00 56.00	102.00 60.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	111.66	212,000.00	212,000.00	212,000.00	193,000.00	
69	- WINTER	131.72	166,200.00	166,200.00	166,200.00	97,570.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	6.05	4.40	11.58	7.00		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	10.75		.50	628.66	451.17	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		338.30	68.15	160.00	140.00	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		12.50				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			2.00	193.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	SW	ST	OT	
78	RECEIVING WATER BODY		R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING		8.10			6.40	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		1,331.00			50.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING		72.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		4 70.00	6 310.00	4 923.00	2 1,099.60	
84	ONCE THROUGH COOLING (SALINE)	11 155.50					
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATIONS[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1950	1917 1920	1924 1937	1953 1961	1967 1968	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.10 18.70	20.00	20.00	15.50 22.30	20.90	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	420.16	285.30	857.00	928.00	1,040.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	420.16	285.00	857.00	928.00	1,040.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,122.00	120.00	335.00	7,638.00	4,259.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	49.30	11.00	27.00	57.00	152.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.40			8.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	125.40	13.00	37.00	94.00	210.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.20	38.00	11.40	70.00	65.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNITED POWER ASSOC.	UNITED POWER ASSOC.	1
2							2
3							3
4	NAME OF PLANT	VENICE #1	VENICE #2	LABADIE	STANTON	ELK RIVER	4
5	UTILITY-PLANT CODE	512500-1000	512500-1100	512500-1200	513500-0100	513500-0200	5
6	STATE	ILLINOIS	ILLINOIS	MISSOURI	NORTH DAKOTA	MINNESOTA	6
7	COUNTY	MADISON	MADISON	FRANKLIN	MERCER	SHERBURNE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	070 07	070 07	095 11	172 10	132 07	8
9	PLANT CAPACITY (MW)	55.00	474.30	1,861.50	172.00	48.00	9
10	ANNUAL GENERATION (MWH)[3]	4,200	2,055,200	4,664,700	1,041,800	115,000	10
11	PLANT HEAT RATE (BTU/KWH)[3]	37,163	13,025	9,971	11,618	13,978	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,115.70	1,698.40	862.50	18.50	12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,262	11,216	6,990	12,204	13
14	AVERAGE SULFUR CONTENT (%)		2.32	3.07	.79	2.74	14
15	AVERAGE ASH CONTENT (%)		11.54	10.17	7.60	5.66	15
16	AVERAGE MOISTURE CONTENT (%)		9.85	11.19	35.04	9.76	16
17	OIL: CONSUMPTION (1,000 BARRELS)	23.50	29.00	105.60	9.00	130.20	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,000	138,000	138,000	140,000	138,000	18
19	AVERAGE SULFUR CONTENT (%)	.26	.26	.26	.50	.50	19
20	GAS: CONSUMPTION (1,000 MCF)	19.30	1,651.70			392.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,050			1,000	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	11	6	3	1	3	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION					1	24
25	- NO. WITH MECHANICAL PRECIPITATORS				1	3	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		6	3			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	23.00	23.00	23.00	23.00	30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00	75.00 84.00	30
31	TESTED, LOW - HIGH				81.80	11.00 86.00	31
32	ESTIMATED, LOW - HIGH					11.00 64.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00 95.00	99.50				33
34	TESTED, LOW - HIGH	87.80 95.10	98.00				34
35	EST., LOW - HIGH		97.00	99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		2.74	1.69	21.27	.65	39
40	SULFUR DIOXIDE (1,000 TONS)	.02	62.58	114.71	13.53	1.26	40
41	NITROGEN OXIDES (1,000 TONS)	.06	9.25	17.32	7.78	.51	41
42	STACKS: - TOTAL NO.	4	8	3	1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	176.00 210.00	237.00	70.00 700.00	255.00	68.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		125.30	187.20	58.00	.80	45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				115.50	40.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,017.00	7,738.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	49.00	418.00	7,521.00	150.00	15.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		212.30	124.20	46.00	2.00	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		2,582.20	3,049.50	46.00	2.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R MISSOURI	L MISSOURI	R MISSISSIPPI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1.00	478.00	377.00	223.00	48.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1.00	478.00	377.00	223.00	48.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.01	4.11	3.24	1.92	.42 .10	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	OCT DEC	OCT DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 33.00	85.00 33.00	81.00 38.00	56.00 32.00	59.00 47.00	66
67	AT OUTFALL, SUMMER - WINTER	99.50 63.00	100.00 63.00	111.00 68.00	71.00 56.00	72.00 69.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	212,000.00	212,000.00	59,000.00	21,200.00	7,550.00	68
69	- WINTER	166,200.00	166,200.00	68,600.00	22,800.00	5,370.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]			C		C	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		6.55	4.98	.02		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			1,948.39	980.00	11.38	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		155.31	575.73	31.25	5.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				10.79		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	SW	ST	OT	ST	PS	77
78	RECEIVING WATER BODY	R MISSISSIPPI	R MISSISSIPPI	O ASH POND			78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			8.20 8.20	9.00 9.90	7.90	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			49.00 49.00	.05 24.00	10.70	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			116,560.00	180.00	16.40	81
82	- ASH SETTLING			116,560.00	19,000.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 55.00	6 474.00	3 1,861.50	1 172.00	3 48.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1929	1942 1950	1970	1966	1951 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	20.00	29.70	16.00	11.50 15.90	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	121.00	890.00	1,257.00	220.00	112.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	121.00	890.00	1,431.00	220.00	112.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	51.00	7,498.00	14,246.00	650.00	500.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		299.00	280.00	3.00	.50	95
96	COST OF CHEMICAL ADDITIVES ($1,000)					1.38	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		173.00	211.00	10.00	7.63	97
98	COST OF CHEMICAL ADDITIVES ($1,000)		6.00	194.00	36.00	1.48	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	UNIVERSITY OF ILLINOIS	UPPER PENINSULA GEN. CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	
4	NAME OF PLANT	ABBOTT	PRESQUE ISLE	CARBON	GAOSBY	HALE	
5	UTILITY-PLANT CODE	514500-0100	516000-0100	517000-0500	517000-1000	517000-1500	
6	STATE	ILLINOIS	MICHIGAN	UTAH	UTAH	UTAH	
7	COUNTY	CHAMPAIGN	MARQUETTE	CARBON	SALT LAKE	UTAH	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	066 05	126 04	219 14	220 16	220 16	
9	PLANT CAPACITY (MW)	30.00	174.70	166.00	251.64	59.00	
10	ANNUAL GENERATION (MWH) 3/	94,200	1,121,000	826,900	1,196,600	62,800	
11	PLANT HEAT RATE (BTU/KWH) 3/	36,354	11,316	11,434	11,731	15,444	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	25.98	510.50	386.89	142.49	17.54		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,299	12,400	12,193	12,296	12,291		13
14	AVERAGE SULFUR CONTENT (%)	2.63	1.00	.51	.52	.54		14
15	AVERAGE ASH CONTENT (%)	8.64	10.80	7.09	7.15	7.20		15
16	AVERAGE MOISTURE CONTENT (%)	2.92	6.10	6.50	6.50	6.50		16
17	OIL: CONSUMPTION (1,000 BARRELS)	580.50	8.80	3.43	1,248.02			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,959	135,400	140,000	150,452			18
19	AVERAGE SULFUR CONTENT (%)	.21	.10	.60	.90			19
20	GAS: CONSUMPTION (1,000 MCF)				2,803.77	596.55		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				944	903		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	4	2	3	1		22
23	- NO. OF WET BOTTOM		3					23
24	- NO. WITH FLY ASH REINJECTION	3						24
25	- NO. WITH MECHANICAL PRECIPITATORS	7						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		4	2				26
27	- NO. WITH COMBINATION PRECIPITATORS 4/		4					27
28	- NO. WITH DESULFURIZATION SYSTEMS				2			28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00 30.00	18.00 23.00	21.00	18.00	27.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	92.00 95.20	85.00	75.00 80.70				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH			75.00 81.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		95.00					33
34	TESTED, LOW - HIGH				97.00			34
35	EST., LOW - HIGH		90.00		86.80 98.00	97.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				90.00 96.50	97.00		36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.07	2.67	5.02	.51	.02		39
40	SULFUR DIOXIDE (1,000 TONS)	1.44	6.96	3.80	5.16	.17		40
41	NITROGEN OXIDES (1,000 TONS)	1.43	4.83	3.49	4.58	.25		41
42	STACKS: - TOTAL NO.	2	4	2	3	1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00 204.00	147.50 194.00	200.00	250.00	160.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/		45.70	23.00	10.10	1.20		45
46	SOLD (1,000 TONS) 11/			1.20				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	103.60	119.00	173.88				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		4,481.00					51
52	COMBINATION PRECIPITATORS ($1,000) 4/							52
53	DESULFURIZATION SYSTEMS ($1,000)				680.75			53
54	STACKS ($1,000)	47.90	115.00	119.89	327.10	9.30		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		55.00	76.20	51.50	3.90		55
56	REVENUES FROM SALE OF ASH ($1,000)			6.10				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		55.00	76.20	51.50	3.90		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			6.10				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R DEAD	R PRICE	R JORDAN	R PROVO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.10	183.80	3.00	4.09	60.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	.05	183.80	1.00		60.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.10	1.58	2.00	4.09			64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG JAN	AUG OEC		AUG OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		75.00 35.00					66
67	AT OUTFALL, SUMMER - WINTER		98.00 60.00					67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							68
69	- WINTER			190.00		210.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 15/			15.00		420.00		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.30	2.30	.40 .30	40.00 3.00	.08		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	115.10	.25	.45	.30	.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		8.00	2.70	23.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES	YES YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	PS	ST	ST	PS	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE 17/: PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		8.00	9.80				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING		1,350.00	21,700.00				82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)		4 174.70			1 15.00		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)	7 30.00		2 188.64	3 251.64			86
87	COMBINATION 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1960	1955 1966	1954 1957	1951 1955	1936		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	10.00	20.00 26.00	19.00 20.00	11.00 13.00	7.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90.00	171.00	221.00	494.50	461.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		185.00					91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		1,166.00					92
93	COOLING PONDS ($1,000)					46.41		93
94	COOLING TOWERS ($1,000)	194.00		480.51	1,805.58			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.52	6.70	163.40	50.50			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.82	18.00	36.80	64.80			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.00	15.70	14.30	50.50	3.50		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	12.00	3.10	1.50	9.40	.30		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1 NAME OF UTILITY	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	
4 NAME OF PLANT	JORDAN	NAUGHTON	BREMO BLUFF	CHESTERFIELD	MOUNT STORM	
5 UTILITY-PLANT CODE	517000-1700	517000-2000	525000-0200	525000-0300	525000-0700	
6 STATE	UTAH	WYOMING	VIRGINIA	VIRGINIA	WEST VIRGINIA	
7 COUNTY	SALT LAKE	LINCOLN	FLUVANNA	CHESTERFIELD	GRANT	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	220 16	243 16	224 02	225 02	113 02	
9 PLANT CAPACITY (MW)	25.00	707.20	284.28	1,484.44	1,140.48	
10 ANNUAL GENERATION (MWH) 3/		3,255,500	754,200	8,145,200	6,261,100	
11 PLANT HEAT RATE (BTU/KWH) 3/		10,238	10,551	10,335	10,153	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)		1,772.21	309.00		2,752.50	
13 AVERAGE HEAT CONTENT (BTU/LB)		9,400	12,632		11,358	
14 AVERAGE SULFUR CONTENT (%)		.55	.92		2.03	
15 AVERAGE ASH CONTENT (%)		5.00	10.73		18.23	
16 AVERAGE MOISTURE CONTENT (%)		22.00	5.18		6.89	
17 OIL: CONSUMPTION (1,000 BARRELS)	1.24	2.23	20.20	13,507.10	244.40	
18 AVERAGE HEAT CONTENT (BTU/GAL)	149,737	140,000	140,000	148,450	140,000	
19 AVERAGE SULFUR CONTENT (%)	1.09	.60	.10	2.25	.10	
20 GAS: CONSUMPTION (1,000 MCF)	1.98	42.30				
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	938	828				

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	2	3	4	6	2	
23 - NO. OF WET BOTTOM			2			
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS		2	2	1		
26 - NO. WITH ELECTROSTATIC PRECIPITATORS		1		4	2	
27 - NO. WITH COMBINATION PRECIPITATORS 4/				1		
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00	21.00	18.00 25.00	26.00 35.00	23.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		80.30	85.30 87.20	85.00		
31 TESTED, LOW - HIGH			70.40			
32 ESTIMATED, LOW - HIGH		80.00	70.00	80.00		
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		96.00		90.00 99.50	96.00	
34 TESTED, LOW - HIGH		72.70		90.25 96.40	85.00 90.00	
35 EST., LOW - HIGH		70.00		72.00	85.00 90.00	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		16.38	8.36	.62	52.39	
40 SULFUR DIOXIDE (1,000 TONS)	.01	19.11	5.63	101.96	109.50	
41 NITROGEN OXIDES (1,000 TONS)	.01	15.96	2.78	29.78	24.77	
42 STACKS: - TOTAL NO.	1	3	4	6	2	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	225.00	200.00 250.00	140.00 200.00	200.00 419.00	350.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				1.65		
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/		75.30	25.00	.40	452.00	
46 SOLD (1,000 TONS) 11/						
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		316.33	356.00	16.00		
51 ELECTROSTATIC PRECIPITATORS ($1,000)		814.00		4,223.00	4,744.00	
52 COMBINATION PRECIPITATORS ($1,000) 4/				426.00		
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	28.52	881.91	166.00	819.00	695.00	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		67.40	38.00	66.70	967.70	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		67.40	43.00	66.70	1,043.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B JORDAN	B HAMS FORK	C JAMES	D JAMES	C STONY	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	60.00	10.30	152.40	1,408.00	1,126.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	60.00		152.40	1,408.00	1,125.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.52	10.30	1.31	12.11	1.00	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC		JUL JAN	JUL JAN	JUL JAN	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			40.00	95.00 54.00	79.00 52.00	
67 AT OUTFALL, SUMMER - WINTER			77.00	113.00 88.00	101.00 72.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	205.00			12,000.00		
69 - WINTER	219.00		4,000.00	8,000.00		
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.02	11.45 .10		2.00	8.40	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	29.75		.25	.85 16.15	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP		24.90			212.69	
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP			48.05 1.85	100.00		
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		2.00		130.00		
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES YES	YES	YES YES	
77 SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 18/	RS	ST	ST	ST	ST	
78 RECEIVING WATER BODY			C JAMES	C JAMES	D COOLING POND	
79 POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING		8.40	7.50	7.00	9.50 8.50	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			250.00	5.00	2,000.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					315.24	
82 - ASH SETTLING		5,300.00		576.00	3,130.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	1 25.00		4 284.28	6 1,484.44		
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING POND(S)						
86 COOLING TOWER(S)		3 710.80				
87 COMBINATION 21/					2 1,140.48	
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929	1963 1971	1931 1958	1944 1969	1965	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	11.00	24.50 29.30	10.00 21.00	12.20 23.50	19.30	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	85.00	509.00	380.60	1,633.56	1,126.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	85.00		387.60	1,633.42		

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	29.67		2,008.00	6,482.00		
93 COOLING PONDS ($1,000)					6,523.00	
94 COOLING TOWERS ($1,000)		2,582.70			380.00	

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	.10	35.00	38.00	200.00	135.70	
96 COST OF CHEMICAL ADDITIVES ($1,000)		24.00	4.00	14.30	3.20	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)		49.30	16.00	293.70	27.00	
98 COST OF CHEMICAL ACUITIVES ($1,000)	.10	12.00	2.00	12.80	10.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	
NAME OF PLANT	PORTSMOUTH	POSSUM POINT	REEVES AVENUE	12TH STREET	YORKTOWN	
UTILITY-PLANT CODE	525000-0900	525000-1000	525000-1100	525000-1300	525000-1400	
STATE	VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA	
COUNTY	CHESAPEAKE	PRINCE WILLIAM	NORFOLK	RICHMOND	YORK	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	223 02	047 02	223 02	225 02	223 02	
PLANT CAPACITY (MW)	649.64	491.30	100.00	102.50	375.00	
ANNUAL GENERATION (MWH) 3/	3,156,300	2,941,800	186,200	64,900	2,199,500	
PLANT HEAT RATE (BTU/KWH) 3/	10,303	10,708	13,962	15,393	10,145	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						813.70
AVERAGE HEAT CONTENT (BTU/LB)						12,991
AVERAGE SULFUR CONTENT (%)						2.07
AVERAGE ASH CONTENT (%)						6.12
AVERAGE MOISTURE CONTENT (%)						7.38
OIL: CONSUMPTION (1,000 BARRELS)	5,195.20	5,048.60	442.90	169.90	31.20	
AVERAGE HEAT CONTENT (BTU/GAL)	148,491	148,416	139,711	140,000	140,000	
AVERAGE SULFUR CONTENT (%)	2.25	2.27	.20	.20	.10	
GAS: CONSUMPTION (1,000 MCF)					523.30	
AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,186	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	4	2	2	2	
- NO. OF WET BOTTOM			2	2		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	3					
- NO. WITH ELECTROSTATIC PRECIPITATORS	1				1	
- NO. WITH COMBINATION PRECIPITATORS 4/		4	2	2		
- NO. WITH DESULFURIZATION SYSTEMS					1	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	17.00 28.00	20.00 28.00	23.50	32.00	22.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00				85.00	
TESTED, LOW - HIGH					84.60	
ESTIMATED, LOW - HIGH	65.00				84.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	96.00	95.00 96.30	92.00 95.30	90.00	99.40	
TESTED, LOW - HIGH	88.50			90.50	96.00	
EST., LOW - HIGH	70.00	T2.00	70.00	70.00	98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.29	.24	.02	.01	3.73	
SULFUR DIOXIDE (1,000 TONS)	39.22	38.45	.28	.11	32.53	
NITROGEN OXIDES (1,000 TONS)	11.46	11.13	.98	.37	7.43	
STACKS: - TOTAL NO.	4	4	2	1	1	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	175.00 200.00	175.00 176.50	200.00 215.00	150.00	325.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	.10	.10			50.00	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	479.00					
ELECTROSTATIC PRECIPITATORS ($1,000)	565.00	1,939.00	312.00	191.00	203.00	
COMBINATION PRECIPITATORS ($1,000) 4/					1,579.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	341.00	229.00	19.00	10.00	214.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	54.20	27.40	1.20	1.90	232.80	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	63.20	54.90	1.20	1.90	237.20	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ELIZABETH	R POTOMAC	L ELIZABETH	O KANAWHA CANAL	C YORK	
AVERAGE RATE OF WITHDRAWAL (CFS)	794.70	464.T3	100.40	296.40	443.00	
AVERAGE RATE OF DISCHARGE (CFS)	T94.70	464.40	100.40	296.40	445.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	6.83	4.00 .26	.86	2.55	3.83	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL JAN	JUL JAN	JUL JAN	JUL JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	98.00 63.00	90.00 47.30	82.00 45.00	82.00 49.00	88.00 55.00	
AT OUTFALL, SUMMER - WINTER	115.00 80.00	109.00 66.00	88.00 60.00	91.00 57.00	106.00 74.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	9,000.00	15,000.00	8,000.00		150,000.00	
- WINTER	7,000.00	11,000.00	6,000.00	6,180.00	130,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.20	.25	3.90	.11	.18	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	393.03	.70	1.05	.29	208.88	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	52.00				58.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	PS	SW	ST	
RECEIVING WATER BODY		R POTOMAC		R JAMES		
POND DISCHARGE: 18/ RH, BOILER BLOWDOWN - ASH SETTLING	7.60	7.50			6.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	250.00	200.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	126,144.00				1,268.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)		4 491.00		4 102.50		
ONCE THROUGH COOLING (SALINE)	550.00		2 100.00		2 375.00	
COOLING PONDS						
COOLING TOWERS						
COMBINATION 20/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1962	1948 1962	1941 1950	1919 1940	1957 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.00 1T.90	17.90 22.00	9.40 11.00	10.00	14.80 14.90	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	794.70	543.30	100.40	296.40	447.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	794.70	543.30	100.40	296.40	490.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)	3,448.00	2,771.00	142.00	72.00	3,026.00	
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	103.00	21.70	1.10	166.60	73.00	
COST OF CHEMICAL ADDITIVES ($1,000)	9.80	.20			7.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	150.00	72.10	2.00	6.00	8.50	
COST OF CHEMICAL ADDITIVES ($1,000)	51.30	T.50	2.00	.30	21.40	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	WASHINGTON R. POWER SUPPLY SYS.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.		
4	NAME OF PLANT	HANFORD	ARMSTRONG	MILESBURG	MITCHELL	SPRINGDALE		
5	UTILITY-PLANT CODE	531500-0100	542000-0100	542000-0300	542000-0400	542000-0500		
6	STATE	WASHINGTON	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
7	COUNTY	BENTON	ARMSTRONG	CENTRE	WASHINGTON	ALLEGHENY		
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	230 17	197 05	195 02	197 05	197 05		
9	PLANT CAPACITY (MW)	862.00	326.40	46.00	448.70	416.13		
10	ANNUAL GENERATION (MWH)[3]	2,919,000	2,032,900	252,900	2,771,200	1,280,700		
11	PLANT HEAT RATE (BTU/KWH)[3]		10,383	12,851	10,544	12,073		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		600.40	135.60	1,144.50	562.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,715	11,947	12,754	13,300		13
14	AVERAGE SULFUR CONTENT (%)		3.20	1.99	2.53	1.66		14
15	AVERAGE ASH CONTENT (%)		16.75	15.17	10.55	6.64		15
16	AVEPAGE MOISTURE CONTENT (%)		3.88	5.82	5.31	6.04		16
17	OIL: CONSUMPTION (1,000 BARRELS)		1.85	1.50		5.89		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		139,000	139,000		139,000		18
19	AVERAGE SULFUR CONTENT (%)		.25	.25		.25		19
20	GAS: CONSUMPTION (1,000 MCF)				25.98			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,050			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		2	?	4	5		22
23	- NO. OF WET BOTTOM					3		23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2		4	5		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]			?				27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		20.00	20.00	20.00	20.00 50.00		29
30	MECHANICAL PPECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00	90.00	95.00	92.00 98.00		33
34	TESTED, LOW - HIGH	96.30	96.40	81.00 86.00	91.50	94.90	70.00 83.00	34
35	EST., LOW - HIGH		96.00	81.00 86.00		92.00	70.00 83.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		5.14	2.66	8.25	5.76		39
40	SULFUR OIOXIDE (1,000 TONS)		56.47	5.32	56.08	19.82		40
41	NITPOGEN OXIDES (1,000 TONS)		8.11	1.22	10.31	7.25		41
42	STACKS: - TOTAL NO.		2	1	4	5		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]		230.00	250.00	193.00 230.00	211.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		166.10	19.80	155.90	50.52		45
46	SOLD (1,000 TONS)[11]		7.90		63.50	9.78		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,338.00		1,306.00	1,604.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]			438.00				52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)		184.00	165.00	246.00	100.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		185.90	42.10	131.40	19.08		55
56	REVENUES FROM SALE OF ASH ($1,000)		2.00		27.20	.16		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		185.90	43.10	190.00	39.08		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		2.00		27.20	.16		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C COLUMBIA	O ALLEGHENY	C SPRING	P MONONGAHELA	P ALLEGHENY		61
62	AVEPAGE RATE OF WITHDRAWAL (CFS)	836.00	300.00	75.00	700.00	650.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	836.00	299.95	74.99	699.85	649.70		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - PEPORTED[14]	7.19	2.58 .05	.65 .01	6.02 .15	5.59 .30		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP JAN	JUL OEC	JUL OEC	JUL OEC	JUL OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66.00 39.00	75.00 36.00	63.00 43.00	80.00 38.00	77.00 34.00		66
67	AT OUTFALL, SUMMER - WINTER	99.00 95.00	105.00 66.00	80.00 60.00	99.00 57.00	91.00 48.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	98,720.00	7,640.00	118.00	5,870.00	9,080.00		68
69	- WINTER	90,280.00	18,800.00	140.00	11,200.00	23,000.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		2.99	.20	1.45	1.11		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		64.61	.01	10.15	6.20		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		2.80		2.08	22.50		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		11.60		32.50	41.00		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.50			2.25 .75	48.00 4.58		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, Sw, OT[18]	ST	ST	ST	ST	ST		77
78	RECEIVING WATER BODY	O TILE FIELD				O FRENCH DRAIN		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			7.30		9.81		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					383.00		81
82	- ASH SETTLING			35,131.24		61,350.10		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 862.00	2 361.00	2 40.00	3 474.00	8 414.14		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1958 1959	1950	1948 1963	1920 1954		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	32.00	29.00 30.00	17.00	18.00 21.00	11.00 23.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,250.00	275.40	68.00	648.00	741.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,250.00	277.00	68.00	656.00	976.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,056.00	1,316.00	172.00	1,193.00	2,263.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	51.03	75.00	22.00	103.70	190.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)		1.30		2.20	5.80		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	75.69	51.00	14.00	64.10	101.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.03	5.90	.30	8.40	9.70		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	WEST PENNSYLVANIA POWER CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	
NAME OF PLANT	HATFIELD	ABILENE	CONCHO	LAKE PAULINE	OAK CREEK	
UTILITY-PLANT CODE	542000-0600	543000-0100	543000-0200	543000-0400	543000-0600	
STATE	PENNSYLVANIA	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	GREENE	TAYLOR	TOM GREEN	HARDEMAN	COKE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	197 05	210 12	218 12	210 11	218 12	
PLANT CAPACITY (MW)	1,728.00	26.25	52.50	44.50	81.60	
ANNUAL GENERATION (MWH)[3]	8,856,300	8,200	22,200	132,500	432,000	
PLANT HEAT RATE (BTU/KWH)[3]	9,420	16,396	14,955	13,267	10,172	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	3,381.70					
AVERAGE HEAT CONTENT (BTU/LB)	12,343					
AVERAGE SULFUR CONTENT (%)	2.54					
AVERAGE ASH CONTENT (%)	13.82					
AVERAGE MOISTURE CONTENT (%)	4.31					
OIL: CONSUMPTION (1,000 BARRELS)	20.11	8.59	10.62	7.76	4.69	
AVERAGE HEAT CONTENT (BTU/GAL)	139,000	148,447	148,447	148,748	139,100	
AVERAGE SULFUR CONTENT (%)	.25	.50	.50	.50	.40	
GAS: CONSUMPTION (1,000 MCF)		76.54	247.70	1,568.00	4,153.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,058	1,074	1,090	1,052	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	3	4	4	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	3					
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30.00	15.00	8.00	8.00	11.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00					
TESTED, LOW - HIGH	87.00 95.00					
EST., LOW - HIGH	87.00 95.00					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	30.04					
SULFUR DIOXIDE (1,000 TONS)	165.76	.01	.02	.01	.01	
NITROGEN OXIDES (1,000 TONS)	30.49	.03	.07	.32	.82	
STACKS: - TOTAL NO.	2	3	4	2	1	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	750.00	100.00	105.00 109.00	112.00 113.50	130.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	633.31					
SOLD (1,000 TONS)[11]	10.07					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	4,776.00					
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	2,203.00				14.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	825.50					
REVENUES FROM SALE OF ASH ($1,000)	2.20					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	836.70					
TOTAL BYPRODUCT SALES REVENUES ($1,000)	2.20					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P MONONGAHELA	L PHANTOM	M	L PAULINE	L OAK CREEK	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,115.00	.18	.21	70.77	77.20	
AVERAGE RATE OF DISCHARGE (CFS)	1,114.66	.07	.05	70.77	77.20	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.34	.10	.16	.25	.64	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 32.00			89.00 53.00	84.00 58.00	
AT OUTFALL, SUMMER - WINTER	95.00 47.00	84.00 71.00	83.00 55.00	98.00 76.00	108.00 74.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,790.00					
- WINTER	10,100.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP						
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	250.00 718.00	.10	.46 .08	.33	.23	
LIME (TONS), COOLING WATER - BOILER MAKEUP	155.00	6.00	26.03 .07	.24	.06	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	50.00		1.75			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	31.00 4.48	.08	.28	6.00	2.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	ST	PS	ST	ST	
RECEIVING WATER BODY	R MONONGAHELA					
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	5.80					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	107.00					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	384,142.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 576.00					
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)				2 44.50	1 81.60	
COOLING TOWER(S)	1 576.00	2 26.25	2 52.50			
COMBINATIONS[21]	1 576.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969 1971	1948 1949	1947 1953	1928 1951	1962	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00	11.00	15.00 16.20	7.50 8.50	19.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,812.00	64.10	105.00	179.70	90.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,112.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	5,624.00					
COOLING PONDS ($1,000)				192.00		
COOLING TOWERS ($1,000)	4,373.00	137.00	188.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	279.60					
COST OF CHEMICAL ADDITIVES ($1,000)	31.10	.30	1.51	1.02	.35	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	61.10					
COST OF CHEMICAL ADDITIVES ($1,000)	176.40	.03	.20	4.91	.45	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WESTERN FARMERS ELECTRIC COOP.	WESTERN FARMERS ELECTRIC COOP.		1
2								2
3								3
4	NAME OF PLANT	PAINT CREEK	RIO PECOS	SAN ANGELO	ANADARKO	WOODWARD		4
5	UTILITY-PLANT CODE	543000-0700	543000-0900	543000-1000	544000-0100	544000-0300		5
6	STATE	TEXAS	TEXAS	TEXAS	OKLAHOMA	OKLAHOMA		6
7	COUNTY	HASKELL	CROCKETT	TOM GREEN	CADDO	WOODWARD		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	210 12	218 13	216 12	109 11	107 11		8
9	PLANT CAPACITY (MW)	241.60	136.50	100.85	84.50	191.00		9
10	ANNUAL GENERATION (MWHR)[3]	741,500	989,000	829,900	395,900	1,044,300		10
11	PLANT HEAT RATE (BTU/KWHR)[3]	10,849	10,620	9,554	11,951	10,328		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)							12
13	AVERAGE HEAT CONTENT (BTU/LB)							13
14	AVERAGE SULFUR CONTENT (%)							14
15	AVERAGE ASH CONTENT (%)							15
16	AVERAGE MOISTURE CONTENT (%)							16
17	OIL: CONSUMPTION (1,000 BARRELS)	13.39		5.09	13.50			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,300		135,860	148,031			18
19	AVERAGE SULFUR CONTENT (%)	.10		.10	2.00			19
20	GAS: CONSUMPTION (1,000 MCF)	7,424.00	10,772.00	7,472.00	4,441.24	10,252.24		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,064	975	1,057	1,046	1,052		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	4	2	1	3	2		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS[4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00 8.00	8.00		7.00 20.00	9.00 10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)							39
40	SULFUR DIOXIDE (1,000 TONS)							40
41	NITROGEN OXIDES (1,000 TONS)	1.48	2.10	.66	.90	2.00		41
42	STACKS: - TOTAL NO.	4	2	1	3	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	100.00 151.00	110.00 119.00	113.00	101.00 111.50	125.00 153.50		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]							45
46	SOLD (1,000 TONS)[11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000)[4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	53.00	22.00	6.70				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]							59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L STAMFORD	W	L NASWORTHY	B WASHITA	Q		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	152.00	4.14	153.00	1.32	2.81		62
63	AVERAGE RATE OF DISCHARGE (CFS)	152.00	1.08	153.00	.20	.42		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.06	3.06	1.19	1.12	2.39		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	JUL DEC	JUL DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 52.00		87.00 57.00				66
67	AT OUTFALL, SUMMER - WINTER	99.00 81.00	93.00 105.00	103.00 84.00	95.00 80.00	84.00 63.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				.34	.50		68
69	- WINTER				.10	.43		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.75	14.60 .33	.10	.50	.08		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.20	.21		.05	.08		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	13.13	900.50					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	2.50						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.91 2.00		8.00	5.93	9.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	PS	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)							83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)	4 241.60		1 100.85				85
86	COOLING TOWER(S)		2 136.50		3 84.50	2 191.00		86
87	COMBINATIONS[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1971	1959 1969	1965	1953 1959	1964 1968		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.00 20.50	18.40 22.10	12.75	12.00 16.00	15.00 17.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	303.00	164.30	174.00	155.80	253.96		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)							91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)							92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		242.00		245.78	401.40		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					26.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.59	29.71	1.39	26.00			96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)							97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.48	2.22	1.82	1.10	2.10		98

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

	NAME OF UTILITY	WESTERN MASSACHUSETTS ELECTRIC CO.	WINNETKA, VILLAGE OF.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.
4	NAME OF PLANT	WEST SPRINGFIELD	WINNETKA	COMMERCE	LAKESIDE	NORTH OAK CREEK
5	UTILITY-PLANT CODE	545500-1100	551500-0100	553000-0100	553000-0300	553000-0400
6	STATE	MASSACHUSETTS	ILLINOIS	WISCONSIN	WISCONSIN	WISCONSIN
7	COUNTY	HAMPDEN	COOK	MILWAUKEE	MILWAUKEE	MILWAUKEE
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	042 01	067 04	239 04	239 04	239 04
9	PLANT CAPACITY (MW)	209.64	25.50	35.00	310.00	500.00
10	ANNUAL GENERATION (MWH) 3/	1,227,800	50,300	139,900	647,500	2,381,100
11	PLANT HEAT RATE (BTU/KWH) 3/	11,115	17,851	15,739	16,415	10,212

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		19.56			1,055.10	12
13	AVERAGE HEAT CONTENT (BTU/LB)		13,000			11,488	13
14	AVERAGE SULFUR CONTENT (%)		.80			1.95	14
15	AVERAGE ASH CONTENT (%)		6.85			9.31	15
16	AVERAGE MOISTURE CONTENT (%)		5.49			10.18	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,723.60		53.77	380.83	12.80	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,890		135,996	137,155	136,566	18
19	AVERAGE SULFUR CONTENT (%)	.95		.28	.50	.21	19
20	GAS: CONSUMPTION (1,000 MCF)	3,078.91	377.92	1,839.60	8,221.15		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,030	1,030	1,026		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	5	1	20	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION		1				24
25	- NO. WITH MECHANICAL PRECIPITATORS		1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3				4	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 23.00	30.00 31.00	10.00	10.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		91.80				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH		87.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	95.00 97.50				99.00 99.50	33
34	TESTED, LOW - HIGH	96.40 98.80				98.40 98.73	34
35	EST., LOW - HIGH	65.00 70.00				97.84 98.82	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.09	.41	.01	.06	1.08	39
40	SULFUR DIOXIDE (1,000 TONS)	5.49	.31	.05	.64	40.33	40
41	NITROGEN OXIDES (1,000 TONS)	4.40	.22	.48	2.44	7.94	41
42	STACKS: - TOTAL NO.	3	1	1	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	180.00 223.00	251.50	300.70	231.00 253.23	250.25 350.25	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.23					44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	.25				103.60	45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		9.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	634.00				2,713.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	634.00	111.00	120.00	231.00	246.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	18.16	2.99			532.40	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	36.86	2.98			532.40	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C CONNECTICUT	L MICHIGAN	C MILWAUKEE	L MICHIGAN	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	307.00	31.10	45.10	458.70	651.20	62
63	AVERAGE RATE OF DISCHARGE (CFS)	307.00	31.10	44.20	449.50	638.20	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - PEPDPTE 14/	2.64	.27	.36 .90	9.24 9.20	13.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/			AUG DEC		AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00 37.00		78.00 36.00	70.00 47.00	69.00 43.00	66
67	AT OUTFALL, SUMMER - WINTER	102.00 59.00		87.00 44.00	80.00 61.00	78.00 56.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	6,000.00		733.00			68
69	- WINTER	16,000.00		290.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	4.29 5.63		.43	17.23	1.09	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	6.17 1.94	.26	67.60		74.86	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				.21		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.43		1.83	3.50	12.20	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	R	PS	PS	OT	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	7.20	8.20	6.50	10.10	6.90	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		1,200.00			200.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		96.90	242.00	740.00	293.40	81
82	- ASH SETTLING	445.50					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 209.64	4 25.50	1 35.00	8 280.00	4 500.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION 21/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1957	1937 1961	1941	1920 1930	1953 1957	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	20.00 21.85	12.00	10.50	7.50 10.00	9.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	241.70	80.74	85.00	1,070.00	980.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	307.00	80.74	85.00	1,070.00	980.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,188.00	254.00	219.00	557.00	1,814.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	47.04		17.00	89.30	109.20	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.45		1.10	2.90	5.30	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.60		96.60	10.50	28.60	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	5.78		9.80	12.50	12.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN POWER & LIGHT CO.		
NAME OF PLANT	PORT WASHINGTON	SOUTH OAK CREEK	VALLEY	POINT BEACH	BLACKHAWK		
UTILITY-PLANT CODE	553000-0500	553000-0600	553000-0700	553000-0800	554000-0200		
STATE	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN		
COUNTY	OZAUKEE	MILWAUKEE	MILWAUKEE	MANITOWOC	ROCK		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	239 04	239 04	239 04	237 04	073 07		
PLANT CAPACITY (MW)	400.00	1,192.00	272.00	1,047.60	50.00		
ANNUAL GENERATION (MWH)[3]	1,517,000	5,365,300	1,296,300	3,054,200	254,100		
PLANT HEAT RATE (BTU/KWH)[3]	11,575	9,567	13,858	10,785	12,182		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	720.37	2,230.97	793.93		6.29		
AVERAGE HEAT CONTENT (BTU/LB)	12,188	11,904	11,935		10,977		
AVERAGE SULFUR CONTENT (%)	2.62	1.99	2.93		2.98		
AVERAGE ASH CONTENT (%)	10.11	9.34	10.42		8.69		
AVERAGE MOISTURE CONTENT (%)	6.68	10.17	8.33		12.91		
OIL: CONSUMPTION (1,000 BARRELS)		80.90					
AVERAGE HEAT CONTENT (BTU/GAL)		137,153					
AVERAGE SULFUR CONTENT (%)		.22					
GAS: CONSUMPTION (1,000 MCF)			115.44		2,868.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,030		1,016		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	4	4		2		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS					2		
- NO. WITH ELECTROSTATIC PRECIPITATORS	5	4	4				
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	28.00 30.00	20.00 21.00	20.00		10.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					88.00		
TESTED, LOW - HIGH					88.00		
ESTIMATED, LOW - HIGH					80.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.10 99.20	92.00 99.00	99.00				
TESTED, LOW - HIGH	98.50 99.60	97.81 99.69	98.43 99.36				
EST., LOW - HIGH	98.46 99.10	95.46 97.54	98.98 99.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.58	5.76	.62		.19		
SULFUR DIOXIDE (1,000 TONS)	36.99	86.14	40.42		.48		
NITROGEN OXIDES (1,000 TONS)	5.40	18.77	6.36		.63		
STACKS: - TOTAL NO.	2	2	2		1		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	505.17 505.50	454.29 556.67	400.00		226.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	78.70	209.20	80.60		.80		
SOLD (1,000 TONS)[11]		24.00					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					68.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	2,517.00	7,794.00	1,229.00				
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	763.00	971.00	706.00		60.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	458.20	1,093.80	402.30		6.00		
REVENUES FROM SALE OF ASH ($1,000)		8.20					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	458.20	1,093.80	402.30		6.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		8.20					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	L MICHIGAN	C N. MENOM. CNL	L MICHIGAN	L ROCK		
AVERAGE RATE OF WITHDRAWAL (CFS)	648.20	1,449.30	196.20	704.30	77.80		
AVERAGE RATE OF DISCHARGE (CFS)	635.20	1,420.30	192.30	690.20	77.80		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.57 13.00	12.46 29.30	1.69 3.90	6.06 14.10	.67		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67.00 46.00	68.00 43.00	81.00 52.00	64.00 60.00	83.00 45.00		
AT OUTFALL, SUMMER - WINTER	74.00 62.00	79.00 57.00	113.00 85.00	76.00 71.00	96.00 72.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			242.60		1,577.00		
- WINTER			239.20		1,539.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.65	2.42	2.58	.68			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	110.50	100.93	871.71	38.07	.90		
LIME (TONS), COOLING WATER - BOILER MAKEUP				4.13			
ALUM (TONS), COOLING WATER - BOILER MAKEUP				3.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.77	27.16	34.13		1.04		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	PS	OT	PS		
RECEIVING WATER BODY				L MICHIGAN			
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.80 7.50	6.90	7.30	8.50	10.20		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	40.00 15.00	200.00		.70	10.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	128.00	631.60	1,700.00	878.41	120.00		
- ASH SETTLING	127,144.83						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 400.00	4 1,170.30	2 280.00	2 1,047.60	2 57.50		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1935 1950	1959 1967	1968 1969	1970 1972	1946 1949		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	7.50	11.00 16.00	31.86	19.30	12.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,225.00	1,760.00	250.00	1,586.00	152.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,225.00	1,760.00	250.00	1,586.00	156.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	697.00	1,640.00	857.00	5,710.00	56.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	130.60	216.70	46.20	17.70	25.70		
COST OF CHEMICAL ADDITIVES ($1,000)	.60	11.70	12.00		.70		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.20	62.80	206.70	20.60	6.20		
COST OF CHEMICAL ADDITIVES ($1,000)	18.20	26.70	99.90	20.40	5.80		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

NAME OF UTILITY	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN PUBLIC SERVICE CORP.	WISCONSIN PUBLIC SERVICE CORP.	
NAME OF PLANT	EDGEWATER	NELSON DEWEY	ROCK RIVER	PULLIAM	WESTON	
UTILITY-PLANT CODE	554000-0300	554000-0600	554000-0900	554500-1500	554500-2000	
STATE	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	
COUNTY	SHEBOYGAN	GRANT	ROCK	BROWN	MARATHON	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	237 04	068 07	073 07	237 04	238 07	
PLANT CAPACITY (MW)	477.00	227.20	150.00	392.50	135.00	
ANNUAL GENERATION (MWH)[3]	2,774,900	1,439,800	827,800	2,274,300	811,300	
PLANT HEAT RATE (BTU/KWH)[3]	10,199	9,746	10,483	11,293	11,113	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,297.20	638.00	389.00	1,070.70	282.50	
AVERAGE HEAT CONTENT (BTU/LB)	10,918	10,994	11,135	11,727	11,947	
AVERAGE SULFUR CONTENT (%)	2.47	3.51	2.93	2.54	3.18	
AVERAGE ASH CONTENT (%)	8.79	10.10	9.43	10.98	9.99	
AVERAGE MOISTURE CONTENT (%)	14.91	13.41	12.97	8.01	7.85	
OIL: CONSUMPTION (1,000 BARRELS)	.50	.30	2.30	16.90	3.10	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000	139,000	139,000	
AVERAGE SULFUR CONTENT (%)	.30	.30	.30	.30	.30	
GAS: CONSUMPTION (1,000 MCF)				328.30	2,186.10	
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,029	1,027	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	2	2	8	2	
- NO. OF WET BOTTOM	2	2	2	6		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	3					
- NO. WITH COMBINATION PRECIPITATORS[4]				6	2	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	12.00	15.00	15.00	18.00 28.00	23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00 99.00			90.00 93.00	99.00	
TESTED, LOW - HIGH	95.50 99.70		99.60	88.30 97.40	99.70	
EST., LOW - HIGH	95.50 99.70		99.60	87.90 96.30	99.20 99.60	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.42	6.38	.01	6.00	.14	
SULFUR DIOXIDE (1,000 TONS)	62.81	43.77	22.11	52.48	17.72	
NITROGEN OXIDES (1,000 TONS)	33.84	17.55	10.70	16.12	2.98	
STACKS: - TOTAL NO.	3	1	2	7	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00 360.00	352.00	250.00	183.00 237.50	242.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	108.00	51.00	34.60	107.60	18.00	
SOLD (1,000 TONS)[11]			27.40	27.50	3.90	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,106.00			1,551.00	3,077.00	
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	474.00	185.00	300.00	321.00	56.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	145.20	53.40	57.00	127.80	14.80	
REVENUES FROM SALE OF ASH ($1,000)			10.00	6.90	2.70	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	145.20	53.40	57.00	127.80	14.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			10.00	6.90	2.70	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	P MISSISSIPPI	R ROCK	P FOX	E WISCONSIN	
AVERAGE RATE OF WITHDRAWAL (CFS)	294.50	209.00	154.00	609.00	144.00	
AVERAGE RATE OF DISCHARGE (CFS)	294.50	209.00	154.00	609.00	144.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.53	1.80	1.32	5.24	1.24	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	56.00 36.00	73.00 33.00	79.00 44.00	79.00 38.00	70.00 36.00	
AT OUTFALL, SUMMER - WINTER	82.00 70.00	93.00 56.00	104.00 72.00	92.00 56.00	91.00 63.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		223.00	1,577.00			
- WINTER		167.00	1,539.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.40	.05	.10	1.90	.22	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.35	.05	.03	33.00	20.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	8.70					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.35		1.70	196.00	210.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	PS		
RECEIVING WATER BODY						
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.50 7.60	8.50 7.60	10.30 7.60			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		8.00 2.00	3.00 3.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	430.00	75.00	60.00		835.00	
- ASH SETTLING	200,000.00	60,000.00	65,000.00		10,045.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 490.00	2 236.00	2 159.38	8 392.50	2 135.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS						
COOLING TOWERS						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1931 1969	1960 1962	1954 1955	1926 1964	1954 1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.00 15.00	15.00	12.00	10.00 12.40	17.70 19.70	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	526.00	223.20	214.00	837.90	182.50	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	526.00	222.80	214.00	838.00	182.50	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)	300.00	300.00	250.00	2,376.00	623.00	
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	44.30	41.70	50.00 1.10	72.63 16.37	33.00 14.96	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	21.30	20.00	31.77	11.60	
COST OF CHEMICAL ADDITIVES ($1,000)	34.20	.50	3.30	16.32	5.96	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1972

1	NAME OF UTILITY	1	YANKEE ATOMIC				1
2		2	ELECTRIC CO.				2
3		3					3
4	NAME OF PLANT	4	ROWE				4
5	UTILITY-PLANT CODE	5	562500-0100				5
6	STATE	6	MASSACHUSETTS				6
7	COUNTY	7	FRANKLIN				7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	042 01				8
9	PLANT CAPACITY (MW)	9	165.00				9
10	ANNUAL GENERATION (MWH)[3]	10	647,900				10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	11,850				11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12					12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					13
14	AVERAGE SULFUR CONTENT (%)	14					14
15	AVERAGE ASH CONTENT (%)	15					15
16	AVERAGE MOISTURE CONTENT (%)	16					16
17	OIL: CONSUMPTION (1,000 BARRELS)	17					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18					18
19	AVERAGE SULFUR CONTENT (%)	19					19
20	GAS: CONSUMPTION (1,000 MCF)	20					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22					22
23	- NO. OF WET BOTTOM	23					23
24	- NO. WITH FLY ASH REINJECTION	24					24
25	- NO. WITH MECHANICAL PRECIPITATORS	25					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27					27
28	- NO. WITH DESULFURIZATION SYSTEMS	28					28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29					29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					30
31	TESTED, LOW - HIGH	31					31
32	ESTIMATED, LOW - HIGH	32					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33					33
34	TESTED, LOW - HIGH	34					34
35	EST., LOW - HIGH	35					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36					36
37	TESTED, LOW - HIGH	37					37
38	ESTIMATED, LOW - HIGH	38					38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39					39
40	SULFUR DIOXIDE (1,000 TONS)	40					40
41	NITROGEN OXIDES (1,000 TONS)	41					41
42	STACKS: - TOTAL NO.	42					42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43					43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44					44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45					45
46	SOLD (1,000 TONS)[11]	46					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48					48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51					51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52					52
53	DESULFURIZATION SYSTEMS ($1,000)	53					53
54	STACKS ($1,000)	54					54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55					55
56	REVENUES FROM SALE OF ASH ($1,000)	56					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57					57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58					58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	DEERFIELD				61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	310.00				62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	310.00				63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	2.67				64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65					65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66					66
67	AT OUTFALL, SUMMER - WINTER	67					67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68					68
69	- WINTER	69					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, CT[16]	70					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.28				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	.79				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75					75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES YES				76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77					77
78	RECEIVING WATER BODY	78					78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	79					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81					81
82	- ASH SETTLING	82					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83	1 185.00				83
84	ONCE THROUGH COOLING (SALINE)	84					84
85	COOLING POND(S)	85					85
86	COOLING TOWER(S)	86					86
87	COMBINATION[21]	87					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1960				88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	18.00				89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	310.00				90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	310.00				91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92					92
93	COOLING PONDS ($1,000)	93					93
94	COOLING TOWERS ($1,000)	94					94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	1.82				96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.78				98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

FOOTNOTES TO TABLE 10

1/ Tables 1B, 2B, 4B and 5B display Form 67 data as summarized by AQCR. See Appendix 3 for a map of these regions/numbers.

2/ Tables 6B, 7B, 8B and 9B display Form 67 data as summarized by WRR. See Appendix 4 for a map of these regions/numbers.

3/ Source: FPC Form #1

4/ Precipitator systems which include a mechanical and an electrostatic precipitator in series.

5/ First number is for the boiler with the least excess air; Second number is for the boiler with the highest excess air.

6/ First number is for precipitator with lowest efficiency; Second number is for precipitator with highest efficiency.

7/ Line 39-41 figures computed by FPC. Method of computation described in Section I.

8/ Height of lowest and highest stack in the plant.

9/ May include a variety of fuel oil additives designed to reduce boiler corrosion and to improve combustion.

10/ Tonnage includes bottom ash and flyash as reported in Form 67. The sum of lines 45 and 39 does not necessarily equal the total ash content. (See discussion in Section I above.)

11/ Includes bottom ash and flyash.

12/ Figures computed by FPC. Method of computation described in Section I above.

13/ May include the "incremental cost" of premium (low-sulfur) fuels.

14/ An approximation of assumed average conditions obtained by use of the formula that consumption = (.0086) x (withdrawal), which may be derived as follows:

Average heat rate (1969)	10,447 Btu/kwh
In-plant and stack losses (15%)	1,567 Btu/kwh
Heat equivalent of generation	3,413 Btu/kwh
Heat given up in condenser	5,467 Btu/kwh
Heat dissipated by evaporation (50%)	2,734 Btu/kwh
Heat of evaporation	1,050 Btu/lb

Water evaporated (consumed)	2.6 lb/kwh
Temperature rise across the condenser	18°F.
Flow through condenser (withdrawal)	304 lb/kwh
Ratio of consumption to withdrawal	.0086

15/ System peak power load month.

16/ C - continuously; H - hourly; D - daily; O - other.

17/ Major examples are: H_2SO_4, Na_2SO_3, Na_2SO_4, NaCl, NH_3 and Morpholine.

18/ PS - Public Sewer; ST - Septic tank; SW - surface water body, such as river, lake, ocean; OT - other.

19/ Refers to the discharges from the Boiler Blowdown pond and the Ash Settling pond.

20/ "Unit" refers to a turbine-generator set; capacity refers to maximum nameplate generator rating. There may be a difference in the generating capacity shown on line 9 of Table 10 and the sum of the capacities shown in lines 83 through 87. Minor differences usually resulted when capacities reported in lines 83 through 87 were not the maximum nameplate ratings. Major differences occured at plants with non-condensing units.

21/ Those units with a capability of using more than one cooling system.

22/ First number is for condenser with smallest temperature rise; second number is for condenser with highest temperature rise.

WATER BODY CODES for line No. 61 of the general table containing individual plant data (Table 10):

R-river L-lake B-bay C-creek W-well M-muncipal O-other

APPENDIX 1

ALPHABETICAL INDEX OF PLANTS

PLANT NAME	UTILITY NAME	PAGE
ABBOTT	UNIVERSITY OF ILLINOIS	159
ABILENE	WEST TEXAS UTILITIES CO.	163
ABILENE	THE KANSAS POWER & LIGHT CO.	154
ACME	THE TOLEDO EDISON CO.	155
AGUA FRIA #2	SALT R. PROJ. AGR IMPR PWR DIST	130
ALAMITOS	SOUTHERN CALIFORNIA EDISON CO.	134
ALBANY	NIAGARA-MOHAWK POWER CORP.	103
ALBRIGHT	MONONGAHELA POWER CO.	97
ALEXANDRIA # 2	ALEXANDRIA ELEC. LIGHT & WATER WORKS	30
ALLEN	TENNESSEE VALLEY AUTHORITY	143
ALLEN	DUKE POWER CO.	61
ALMA	DAIRYLAND POWER COOPERATIVE	58
AMOS	APPALACHIAN POWER CO.	31
ANADARKO	WESTERN FARMERS ELECTRIC COOP.	164
APACHE	ARIZONA ELECTRIC POWER COOP	31
ARAPHOE	PUBLIC SERVICE CO. OF COLORADO	127
ARBUCKLE	OKLAHOMA GAS & ELECTRIC CO.	110
ARKWRIGHT	GEORGIA POWER CO.	70
ARMSTRONG	WEST PENNSYLVANIA POWER CO.	162
ARSENAL HILL	SOUTHWESTERN ELECTRIC POWER CO.	140
ARTHUR KILL	CONSOLIDATED EDISON CO. OF NY	54
ASBURY	EMPIRE DIST. ELECTRIC CO.	65
ASHEVILLE	CAROLINA POWER & LIGHT CO.	39
ASHLEY	UNION ELECTRIC CO.	157
ASHTABULA	CLEVELAND ELEC. ILLUM. CO	48
ASTORIA	CONSOLIDATED EDISON CO. OF NY	54
ATKINSON	GEORGIA POWER CO.	70
AURORA	MINNESOTA POWER & LIGHT CO.	95
AVON	PACIFIC GAS & ELECTRIC CO.	113
AVON LAKE	CLEVELAND ELEC. ILLUM. CO	48
AVON PARK	FLORIDA POWER CORP.	66
BAILEY	ARKANSAS ELECTRIC COOP CORP.	32
BAILLY	NORTHERN INDIANA PUBLIC SERVICE CO.	104
BALDWIN	ILLINOIS POWER CO.	79
BARBADOES	PHILADELPHIA ELECTRIC CO.	120
BARRETT	LONG ISLAND LIGHTING CO.	90
BARRY	ALABAMA POWER CO.	29
BARTOW	FLORIDA POWER CORP.	67
BATES	CENTRAL P&L CO.	43
BAY SHORE	THE TOLEDO EDISON CO.	155
BAYBORO	FLORIDA POWER CORP.	66

BECKJORD	THE CINCINNATI GAS & ELECTRIC CO.	149
BELLE ISLE	OKLAHOMA GAS & ELECTRIC CO.	110
BENNING	POTOMAC ELECTRIC POWER CO.	122
BERGEN	PUBLIC SERVICE ELECTRIC & GAS CO.	125
BERTRON	HOUSTON LIGHTING & POWER CO.	77
BIG BEND	TAMPA ELECTRIC CO.	142
BIG BROWN	TEXAS POWER AND LIGHT CO.	147
BIG CAJUN #1	CAJUN ELECTRIC POWER COOP	38
BIG ROCK POINT	CONSUMERS POWER CO.	56
BIG SANDY	KENTUCKY POWER CO.	88
BIG SIOUX	IOWA PUBLIC SERVICE CO.	83
BIRD	THE MONTANA POWER CO.	154
BIRDSALL	COLO SPRINGS P&L DEPT.	49
BLACK DOG	NORTHERN STATES POWER CO. (MINN.)	105
BLACKHAWK	WISCONSIN POWER & LIGHT CO.	166
BLOUNT	MADISON GAS & ELECTRIC CO.	94
BLUE VALLEY	CITY P & L DEPT. INDEPENDENCE MO.	46
BLUFFS	NEBRASKA PUB PWR DISTRICT	57
BONIN	CITY OF LAFAYETTE UTIL. SYSTEM	46
BOONE	IOWA ELECTRIC LIGHT & POWER CO.	82
BOSWELL	MINNESOTA POWER & LIGHT CO.	95
BOWEN	GEORGIA POWER CO.	71
BOWLINE POINT	ORANGE & ROCKLAND UTIL.	122
BRANTLY	CITY OF DANVILLE WTR, GAS, & ELEC. DEPT.	59
BRAUNIG	CITY P. S. BD. SAN ANTONIO	47
BRAYTON	NEW ENGLAND POWER CO.	101
BREED	INDIANA & MICHIGAN ELEC CO.	79
BREMO BLUFF	VIRGINIA ELEC & POWER CO.	160
BRIDGEPORT	IOWA SO. UTIL. CO.	84
BRIDGEPORT HARBOR	THE UNITED ILLUMINATING CO.	156
BROADWAY	PASADENA LIGHT & POWER DEPT.	116
BROWN	KENTUCKY UTILITIES CO.	88
BROWN	MISSISSIPPI POWER & LIGHT CO.	97
BRUNNER ISLAND	PENNSYLVANIA POWER & LIGHT CO.	118
BUCK	DUKE POWER CO.	61
BULL RUN	TENNESSEE VALLEY AUTHORITY	143
BURBANK	BURBANK PUBLIC SERVICE DEPT	38
BURDICK	CITY OF GRAND ISLAND WTR & LIGHT DEP	72
BURGER	OHIO EDISON CO.	107
BURLINGTON	IOWA SO. UTIL. CO.	84
BURLINGTON	PUBLIC SERVICE ELECTRIC & GAS CO.	126
BUZZARD POINT	POTOMAC ELECTRIC POWER CO.	122

CABIN CREEK	APPALACHIAN POWER CO	30
CAHOKIA	UNION ELECTRIC CO.	157
CALUMET	COMMONWEALTH EDISON CO.	51
CAMEO	PUBLIC SERVICE CO. OF COLORADO	127

CAMPBELL	CONSUMERS POWER CO.	56
CANADYS	SOUTH CAROLINA ELECTRIC & GAS CO.	133
CANAL	THE CANAL ELECTRIC CO.	149
CANE RUN	LOUISVILLE GAS & ELECTRIC CO.	92
CANNON	NEW BEDFORD GAS & EDISON LIGHT CO.	99
CAPE FEAR	CAROLINA POWER & LIGHT CO.	39
CAPE KENNEDY	FLORIDA POWER & LIGHT CO.	67
CARBON	UTAH POWER & LIGHT CO.	159
CARDINAL	CARDINAL OPERATING CO.	39
CARLSBAD	SOUTHWEST PUBLIC SERVICE CO.	138
CAYUGA	PUBLIC SERVICE CO. OF INDIANA INC.	125
CEDAR BAYOU	HOUSTON LIGHTING & POWER CO.	78
CENTRALIA	PACIFIC POWER & LIGHT CO	115
CHALK POINT	POTOMAC ELECTRIC POWER CO.	122
CHEROKEE	PUBLIC SERVICE CO. OF COLORADO	128
CHESTER	PHILADELPHIA ELECTRIC CO.	120
CHESTERFIELD	VIRGINIA ELEC & POWER CO.	160
CHESWICK	DUQUESNE LIGHT CO.	64
CHICKASAW	ALABAMA POWER CO.	29
CHOLLA	ARIZONA PUBLIC SERVICE CO	31
CHOUTEAU	GRAND RIVER DAM AUTHORITY	72
CIMARRON RIVER	CENTRAL TELE & UTIL. CORP - W PWR DIV.	44
CLARK	NEVADA POWER CO.	100
CLARK	CENTRAL TELE & UTIL. CORP. - SO.COLO. PWR	45
CLARKE	HOUSTON LIGHTING & POWER CO.	77
CLEARY	TAUNTON MUNICIPAL LIGHTING PLT.	143
CLIFFSIDE	DUKE POWER CO.	62
CLIFTY CREEK	INDIANA-KENTUCKY ELECTRIC CORP.	80
CLINCH RIVER	APPALACHIAN POWER CO	30
COBB	CONSUMERS POWER CO.	55
COFFEEN	CENTRAL ILLINOIS P.S. CO.	40
COLBERT A	TENNESSEE VALLEY AUTHORITY	143
COLBERT B	TENNESSEE VALLEY AUTHORITY	144
COLEMAN	BIG RIVERS RURAL ELECTRIC COOP	36
COLFAX	DUQUESNE LIGHT CO.	63
COLLIN	TEXAS POWER & LIGHT CO.	147
COLUMBUS	CITY OF COLUMBUS	50
COMAL	LOWER COLORADO RIVER AUTH.	93
COMMERCE	WISCONSIN ELECTRIC POWER CO.	165
CONCHO	WEST TEXAS UTILITIES CO.	163
CONEMAUGH	PENNSYLVANIA ELECTRIC CO.	118
CONESVILLE	COLUMBUS & S OHIO ELECTRIC CO.	49
CONNERS CREEK	THE DETROIT EDISON CO.	151
CONTRA COSTA	PACIFIC GAS & ELECTRIC CO.	113
COOL WATER	SOUTHERN CALIFORNIA EDISON CO.	135
COOPER	EAST KENTUCKY RURAL ELECTRIC COOP.	64
CORETTE	THE MONTANA POWER CO.	154
COUCH	ARKANSAS POWER & LIGHT CO.	33
COUGHLIN	CENTRAL LOUISIANA ELECTRIC CO.	42
COUNCIL BLUFFS	IOWA POWER & LIGHT CO.	94

CULLEY	SOUTHERN INDIANA G. E. CO.		137
CUMBERLAND	TENNESSEE VALLEY AUTHORITY		146
CRANE	BALTIMORE GAS & ELECTRIC CO.		35
CRAWFORD	METRO EDISON CO.		94
CRAWFORD	COMMONWEALTH	EDISON CO.	51
CRIST	GULF POWER CO.		72
CROMBY	PHILADELPHIA	ELECTRIC CO.	120
CROSSCUT	SALT R. PROJ.	AGR IMPR PWR DIST	131
CRYSTAL RIVER	FLORIDA POWER	CORP.	66
CUNNINGHAM	SOUTHWEST PUBLIC	SERVICE CO.	138
CUTLER	FLORIDA POWER &	LIGHT CO.	67
DALE	EAST KENTUCKY	RURAL ELECTRIC COOP.	64
DALLAS	DALLAS POWER &	LIGHT CO.	58
DALLMAN	SPRINGFIELD WATER, LIGHT, & POWER DEPT.		141
DAN RIVER	DUKE POWER CO.		62
DANSKAMMER	CENTRAL HUDSON	GAS & ELECTRIC CO.	40
DECKER CREEK	CITY OF AUSTIN	ELECTRIC DEPT.	46
DEEPWATER	HOUSTON LIGHTING	& POWER CO.	76
DEEPWATER	ATLANTIC CITY	ELECTRIC CO.	60
DELAWARE	PHILADELPHIA	ELECTRIC CO.	120
DELAWARE CITY	DELMARVA POWER &	LIGHT CO.	60
DELRAY	THE DETROIT	EDISON CO.	151
DELTA	MISSISSIPPI POWER & LIGHT CO.		96
DEMOSS PETRIE	THE TUCSON GAS & ELECTRIC CO.		156
DENTON	DENTON, CITY OF		61
DENVER CITY	SOUTHWEST PUBLIC	SERVICE CO.	138
DES MOINES #2	IOWA POWER &	LIGHT CO.	84
DEVON	THE CONNECTICUT	LIGHT & POWER CO.	150
DICKERSON	POTOMAC ELECTRIC	POWER CO.	122
DIXON	COMMONWEALTH	EDISON CO.	51
DRAKE	COLO SPRINGS P&L	DEPT.	49
DRESDEN	COMMONWEALTH	EDISON CO.	51
DRESSER	PUBLIC SERVICE	CO. OF INDIANA INC.	124
DUBUQUE	INTERSTATE POWER	CO.	81
DUNKIRK	NIAGARA-MOHAWK	POWER CORP.	104
EAGLE MOUNTAIN	TEXAS ELECTRIC	SERVICE CO.	146
EAST LAKE	CLEVELAND ELEC.	ILLUM. CO	48
EAST PLANT	SOUTHWEST PUBLIC	SERVICE CO.	138
EAST RIVER	CONSOLIDATED	EDISON CO. OF NY	54
EATON	MISSISSIPPI POWER CO.		96
ECKERT	LANSING BOARD OF	W.E.L. COMM.	89
EDDYSTONE	PHILADELPHIA	ELECTRIC CO.	120
EDGAR	BOSTON EDISON	CO.	37

EDGE MOOR	DELMARVA POWER & LIGHT CO.	60
EDGEWATER	WISCONSIN POWER & LIGHT CO.	157
EDGEWATER	OHIO EDISON CO.	107
EDMOND	ST. JOSEPH LIGHT & POWER CO.	141
EDWARDS	CENTRAL ILLINOIS LIGHT CO.	41
EDWARDSPORT	PUBLIC SERVICE CO. OF INDIANA INC.	124
EL CENTRO	IMPERIAL IRRIGATION DIST.	79
EL SEGUNDO	SOUTHERN CALIFORNIA EDISON CO.	135
ELK RIVER	UNITED POWER ASSOC.	158
ELM STREET	CONSUMERS POWER CO.	56
ELRAMA	DUQUESNE LIGHT CO.	63
ENCINA	SAN DIEGO GAS & ELECTRIC CO.	131
ENGLAND	ATLANTIC CITY ELECTRIC CO.	34
ENGLISH	THE UNITED ILLUMINATING CO.	156
ESSEX	PUBLIC SERVICE ELECTRIC & GAS CO.	126
ETIWANDA	SOUTHERN CALIFORNIA EDISON CO.	135
EVANS	KANSAS GAS & ELECTRIC CO.	87
EYLER	METRO EDISON CO.	94

FAR ROCKAWAY	LONG ISLAND LIGHTING CO.	90
FERMI	THE DETROIT EDISON CO.	151
59TH STREET	CONSOLIDATED EDISON CO. OF NY	53
FISK	COMMONWEALTH EDISON CO.	50
FITZHUGH	ARKANSAS ELECTRIC COOP CORP.	32
FORT CHURCHILL	SIERRA PACIFIC POWER CO.	132
FORT MARTIN	MONONGAHELA POWER CO.	98
FORT MYERS	FLORIDA POWER & LIGHT CO.	68
FOUR CORNERS	ARIZONA PUBLIC SERVICE CO	31
FOX LAKE	INTERSTATE POWER CO.	81
FRONT STREET	PENNSYLVANIA ELECTRIC CO.	116

GADSBY	UTAH POWER & LIGHT CO.	159
GADSDEN	ALABAMA POWER CO.	29
GALLAGHER	PUBLIC SERVICE CO. OF INDIANA INC.	124
GALLATIN	TENNESSEE VALLEY AUTHORITY	144
GANNON	TAMPA ELECTRIC CO.	142
GARDNER	NEVADA POWER CO.	100
GASTON	SOUTHERN ELECTRIC GENERATING CO.	137
GENOA (NUCLEAR)	DAIRYLAND POWER COOPERATIVE	58
GENOA #3	DAIRYLAND POWER COOPERATIVE	58
GEORGE NEAL	IOWA PUBLIC SERVICE CO.	83
GEYSERS	PACIFIC GAS & ELECTRIC CO.	115
GIDEON	LOWER COLORADO RIVER AUTH.	93
GILBERT	NEW JERSEY POWER & LIGHT CO.	101
GILL	KANSAS GAS & ELECTRIC CO.	87
GLEN LYN	APPALACHIAN POWER CO	30

GLENARM	PASADENA LIGHT & POWER DEPT.			116
GLENDALE	GLENDALE PUBLIC	SERVICE DEPT.		71
GLENWOOD	LONG ISLAND	LIGHTING CO.		90
GORGAS #2 & #3	ALABAMA POWER CO.			29
GORGE STEAM	OHIO EDISON CO.			107
GOUDEY	NEW YORK STATE	ELECTRIC & GAS	CORP.	102
GOULD STREET	BALTIMORE GAS &	ELECTRIC CO.		35
GRAHAM	TEXAS ELECTRIC	SERVICE CO.		146
GRAHAM	BANGOR HYDRO ELEC. COMPANY			36
GRAINGER	SOUTH CAROLINA	PUBLIC SERVICE	AUTH.	134
GRAND AVENUE	KANSAS CITY POWER & LIGHT CO.			86
GRAND TOWER	CENTRAL ILLINOIS P.S. CO.			41
GREEN	MISSOURI PUBLIC	SERVICE CO.		97
GREEN BAYOU	HOUSTON LIGHTING & POWER CO.			76
GREEN RIVER	KENTUCKY	UTILITIES CO.		88
GREENE	ALABAMA POWER CO.			29
GREENIDGE	NEW YORK STATE	ELECTRIC & GAS	CORP.	102
GREENWOOD	DUKE POWER CO.			63

HADDAM	CONN YANKEE	ATOMIC PWR CO.		53
HAGOOD	SOUTH CAROLINA	ELECTRIC & GAS	CO.	133
HALE	UTAH POWER &	LIGHT CO.		159
HAMILTON	HAMILTON MUNC.	ELECTRIC PLT.		74
HAMMOND	GEORGIA POWER CO.			70
HANDLEY	TEXAS ELECTRIC	SERVICE CO.		146
HANFORD	WASHINGTON P.	POWER SUPPLY SYS.		162
HARBOR	LOS ANGELES DEPT. OF WATER & POWER			91
HARBOR BEACH	THE DETROIT	EDISON CO.		151
HARLLEE BRANCH	GEORGIA POWER CO.			70
HARRISON	MONONGAHELA POWER CO.			98
HATFIELD	WEST PENNSYLVANIAPOWER CO.			163
HAVANA	ILLINOIS POWER	CO.		78
HAWTHORNE	KANSAS CITY POWER & LIGHT CO.			86
HAYDEN	COLORADO - UTE E ASSN. INC.			49
HAYNES	LOS ANGELES DEPT. OF WATER & POWER			91
HELL GATE	CONSOLIDATED	EDISON CO. OF NY		54
HENNEPIN	ILLINOIS POWER	CO.		78
HESKETT	MONTANA-DAKOTA	UTIL. CO.		99
HIBBARD	MINNESOTA POWER & LIGHT CO.			95
HICKLING	NEW YORK STATE	ELECTRIC & GAS	CORP.	102
HIGGINS	FLORIDA POWER	CORP.		66
HIGH BRIDGE	NORTHERN STATES	POWER CO. (MINN.)		105
HIGHGROVE	SOUTHERN CALIFORNIA EDISON CO.			135
HILL	CENTRAL P&L CO.			43
HILL	ASSOCIATED ELEC. COOP INC.			34
HOLLY AVE	LUBBOCK, CITY OF			93
HOLLY STREET	CITY OF AUSTIN E DEPT.			45
HOLTWOOD	PENNSYLVANIA	POWER & LIGHT CO.		118

HOLYOKE	HOLYOKE GAS &	ELECTRIC DEPT.		75
HOMER CITY	PENNSYLVANIA	ELECTRIC CO.		117
HONOLULU	HAWAIIAN ELECTRIC CO. INC.			74
HOOKERS POINT	TAMPA ELECTRIC	CO.		142
HOOT LAKE	OTTER TAIL POWER CO.			112
HOPKINS	TALLAHASSEE,	CITY OF		142
HORSESHOE LAKE	OKLAHOMA GAS &	ELECTRIC CO.		110
HOUMA	CITY OF HOUMA			76
HUDSON	PUBLIC SERVICE	ELECTRIC & GAS	CO.	126
HUDSON AVENUE	CONSOLIDATED	EDISON CO. OF NY		54
HUMBOLDT BAY	PACIFIC GAS &	ELECTRIC CO.		113
HUNLOCK CREEK	UGI CORP	LUZERNE ELEC.	DIVISION	156
HUNTERS POINT	PACIFIC GAS &	ELECTRIC CO.		114
HUNTINGTON BEACH	SOUTHERN CALIFORNIA EDISON CO.			135
HUNTLEY	NIAGARA-MOHAWK	POWER CORP.		103
HUTCHINGS	THE DAYTON POWER & LIGHT CO.			150
HUTCHINSON	THE KANSAS POWER & LIGHT CO.			153
HUTSONVILLE	CENTRAL ILLINOIS P.S. CO.			41
INDIAN POINT	CONSOLIDATED	EDISON CO. OF NY		55
INDIAN RIVER	ORLANDO UTILITIES COMM.			112
INDIAN RIVER	DELMARVA POWER & LIGHT CO.			60
INGLIS	FLORIDA POWER	CORP.		67
IRVINGTON	THE TUCSON GAS & ELECTRIC CO.			156
JAMES RIVER	CITY UTIL. OF	SPRINGFIELD		47
JEFFERIES	SOUTH CAROLINA	PUBLIC SERVICE	AUTH.	134
JENNISON	NEW YORK STATE	ELECTRIC & GAS	CORP.	103
JOHNSONVILLE	TENNESSEE VALLEY	AUTHORITY		144
JOHNSTON	PACIFIC POWER &	LIGHT CO.		116
JOLIET	COMMONWEALTH	EDISON CO.		51
JONES	SOUTHWESTERN	PUBLIC SERVICE	CO.	140
JONES STREET	OMAHA PUBLIC	POWER DIST.		111
JOPPA	ELECTRIC ENERGY	INC.		65
JORDAN	UTAH POWER &	LIGHT CO.		160
JOSLIN	CENTRAL P&L CO.			44
KAHE	HAWAIIAN ELECTRIC CO. INC.			75
KAHULUI	HAWAIIAN ELECTRIC CO. INC.			75
KAMMER	OHIO POWER CO.			108
KANAWHA RIVER	APPALACHIAN POWER CO			30
KAPP	INTERSTATE POWER CO.			81
KARN	CONSUMERS POWER CO.			56
KAW	KANSAS CITY BOARD OF PUBLIC UTILS.			86

KEARNY	PUBLIC SERVICE ELECTRIC & GAS CO.	126
KENDALL SQUARE	CAMBRIDGE ELEC. LIGHT CO.	38
KENNEDY	JACKSONVILLE ELECTRIC LIGHT PLT.	84
KERN	PACIFIC GAS & ELECTRIC CO.	114
KEYSTONE	PENNSYLVANIA ELECTRIC CO.	117
KEYSTONE	CENTRAL ILLINOIS LIGHT CO.	41
KINCAID	COMMONWEALTH EDISON CO.	52
KING	NORTHERN STATES POWER CO. (MINN.)	105
KINGSTON	TENNESSEE VALLEY AUTHORITY	144
KNOX LEE	SOUTHWESTERN ELECTRIC POWER CO.	140
KRAMER	NEBRASKA PUBLIC POWER SYS.	100
KYGER CREEK	OHIO VALLEY ELECTRIC COOP.	109
KYRENE	SALT R. PROJ. AGR IMPR PWR DIST	131
L STREET	BOSTON EDISON CO.	37
LA PALMA	CENTRAL P&L CO.	44
LABADIE	UNION ELECTRIC CO.	158
LAKE CATHERINE	ARKANSAS POWER & LIGHT CO.	33
LAKE CREEK	TEXAS POWER & LIGHT CO.	148
LAKE HIGHLAND	ORLANDO UTILITIES COMM.	112
LAKE HUBBARD	DALLAS POWER & LIGHT CO.	59
LAKE PARKER	LAKELAND LIGHT & WATER DEPT.	89
LAKE PAULINE	WEST TEXAS UTILITIES CO.	163
LAKE ROAD	CLEVELAND DEPT. OF PUBLIC UTIL.	48
LAKE SHORE	CLEVELAND ELEC. ILLUM. CO	48
LAKE WORTH	LAKE WORTH LIGHT & WATER DEPT.	89
LAKEROAD	ST. JOSEPH LIGHT & POWER CO.	141
LAKESIDE	WISCONSIN ELECTRIC POWER CO.	165
LAKESIDE	SPRINGFIELD WATER, LIGHT, & POWER DEPT.	141
LANSING	INTERSTATE POWER CO.	81
LAREDO	CENTRAL P&L CO.	43
LARGE	CENTRAL TELE. & UTIL. CORP - WESTERN PWR DIV.	44
LAUDERDALE	FLORIDA POWER & LIGHT CO.	68
LAWRENCE	THE KANSAS POWER & LIGHT CO.	154
LAWRENCE	NORTHERN STATES POWER CO. (MINN.)	105
LEE	DUKE POWER CO.	62
LEE	CAROLINA POWER & LIGHT CO.	39
LELAND OLDS	BASIN ELECTRIC POWER COOP	36
LEON CREEK	CITY P. S. BD. SAN ANTONIO	46
LEWIS & CLARK	MONTANA-DAKOTA UTIL. CO.	99
LEWIS CREEK	GULF STATES UTILITIES CO.	74
LIEBERMAN	SOUTHWESTERN ELECTRIC POWER CO.	140
LINCOLN	NEBRASKA PUBLIC POWER SYS.	100
LINCOLN	PACIFIC POWER & LIGHT CO.	116
LINDEN	PUBLIC SERVICE ELECTRIC & GAS CO.	126
LITTLE GYPSY	LOUISIANA POWER & LIGHT CO.	92
LONE STAR	SOUTHWESTERN ELECTRIC POWER CO.	140
LONG BEACH	SOUTHERN CALIFORNIA EDISON CO.	136

LONGVIEW	COWLITZ COUNTY	PUB UTIL DST #1	123
LOUISIANA #1	GULF STATES	UTILITIES CO.	73
LOUISIANA #2	GULF STATES	UTILITIES CO.	73
LOVETT	ORANGE & ROCKLAND UTIL. INC.		112
LYNCH	ARKANSAS POWER & LIGHT CO.		33
MAD RIVER	OHIO EDISON CO.		107
MANCHESTER STREET	THE NARRAGANSETT ELECTRIC CO.		155
MANDALAY	SOUTHERN CALIFORNIA EDISON CO.		136
MARION	PUBLIC SERVICE	ELECTRIC & GAS CO.	127
MARKET STREET	NEW ORLEANS	PUBLIC SERVICE INC.	102
MARSHALL	DUKE POWER CO.		62
MARTINEZ	PACIFIC GAS &	ELECTRIC CO.	114
MARTINS CREEK	PENNSYLVANIA	POWER & LIGHT CO.	119
MARYSVILLE	THE DETROIT	EDISON CO.	152
MASON	CENTRAL MAINE PWR CO.		42
MAYNARD	IOWA PUBLIC	SERVICE CO.	83
MCCLELLAN	ARKANSAS ELECTRIC COOP		33
MCDONOUGH	GEORGIA POWER CO.		70
MCKEE RUN	DOVER, CITY OF		61
MCMANUS	GEORGIA POWER CO.		71
MCMEEKIN	SOUTH CAROLINA	ELECTRIC & GAS CO.	133
MERAMEC	UNION ELECTRIC	CO.	157
MERCER	PUBLIC SERVICE	ELECTRIC & GAS CO.	127
MEREDOSIA	CENTRAL ILLINOIS P.S. CO.		41
MERRIMACK	PUBLIC SERVICE CO. OF NEW HAMPSHIRE		125
MIAMI	FLORIDA POWER &	LIGHT CO.	68
MIAMI FORT	THE CINCINNATI	GAS & ELECTRIC CO.	149
MICHIGAN CITY	NORTHERN INDIANA	PUBLIC SERVICE CO.	104
MICHOUD	NEW ORLEANS	PUBLIC SERVICE INC.	102
MIDDLETOWN	THE HARTFORD	ELECTRIC LIGHT CO.	153
MILESBURG	WEST PENNSYLVANIA POWER CO.		162
MILL CREEK	LOUISVILLE GAS & ELEC CO		93
MILLER	BRAZOS ELECTRIC	POWER COOP INC.	39
MILLIKEN	NEW YORK STATE	ELECTRIC & GAS CORP.	103
MILLSTONE #1	MILLSTONE POINT	COMPANY	95
MINNESOTA VALLEY	NORTHERN STATES	POWER CO. (MINN.)	105
MISSION ROAD	CITY P. S. BD.	SAN ANTONIO	47
MISSOURI AVENUE	ATLANTIC CITY	ELECTRIC CO.	34
MISSOURI CITY	N. W. ELECTRIC	POWER COOP. INC.	100
MISTERSKY	DETROIT PUBLIC	LIGHTING COMM.	61
MITCHELL	OHIO POWER CO.		109
MITCHELL	NORTHERN INDIANA PUBLIC SERVICE CO.		104
MITCHELL	GEORGIA POWER CO.		71
MITCHELL	WEST PENNSYLVANIA POWER CO.		162
MOHAVE	SOUTHERN CALIFORNIA EDISON CO.		137
MOLINE	IOWA-ILLINOIS GAS& ELECTRIC CO.		83
MONROE	MONROE, CITY OF		98

MONROE	THE DETROIT EDISON CO.	153
MONTICELLO	NORTHERN STATES POWER CO.	106
MONTOUR	PENNSYLVANIA POWER & LIGHT CO.	119
MONTROSE	KANSAS CITY POWER & LIGHT CO.	86
MONTVILLE	THE CONNECTICUT LIGHT & POWER CO.	150
MOORE	SOUTHWEST PUBLIC SERVICE CO.	139
MOORELAND	WESTERN FARMERS ELECTRIC COOP.	164
MORAN	BURLINGTON ELEC. LIGHT DEPT.	72
MORGAN CREEK	TEXAS ELECTRIC SERVICE CO.	146
MORGANTOWN	POTOMAC ELECTRIC POWER CO.	123
MORRO BAY	PACIFIC GAS & ELECTRIC CO.	114
MORROW	CONSUMERS POWER CO.	55
MOSELLE	SOUTHERN MISSISSIPPI ELEC. PWR ASSOC.	134
MOSES	ARKANSAS POWER & LIGHT CO.	33
MOSS LANDING	PACIFIC GAS & ELECTRIC CO.	114
MOUNT STORM	VIRGINIA ELEC & POWER CO.	160
MOUNT TOM	HOLYOKE WATER POWER CO.	75
MOUNTAIN CREEK	DALLAS POWER & LIGHT CO.	59
MULLERGREN	CENTRAL TELE & UTIL. CORP - W PWR DIV.	45
MUNICIPAL	MORGAN CITY, LA.	99
MUSKINGUM	OHIO POWER CO.	108
MUSKOGEE	OKLAHOMA GAS & ELECTRIC CO.	111
MUSTANG	OKLAHOMA GAS & ELECTRIC CO.	110
MYSTIC	BOSTON EDISON CO.	37

NATCHEZ	MISSISSIPPI POWER & LIGHT CO.	97
NAUGHTON	UTAH POWER & LIGHT CO.	160
NECHES	GULF STATES UTILITIES CO.	73
NELSON	GULF STATES UTILITIES CO.	73
NELSON DEWEY	WISCONSIN POWER & LIGHT CO.	167
NEOSHO	KANSAS GAS & ELECTRIC CO.	87
NEW BOSTON	BOSTON EDISON CO.	37
NEW CASTLE	PENNSYLVANIA POWER CO.	119
NEW MADRID	ASSOCIATED ELEC. COOP. INC.	34
NEWMAN	EL PASO ELECTRIC CO.	65
NEWMAN	GARLAND MUNICIPAL UTILITIES	69
NICHOLS	SOUTHWEST PUBLIC SERVICE CO.	139
NILES	OHIO EDISON CO.	107
NINE MILE	LOUISIANA POWER & LIGHT CO.	92
9 MILE POINT	NIAGARA-MOHAWK POWER CORP.	104
NOBLESVILLE	PUBLIC SERVICE CO. OF INDIANA INC.	124
NORTH LAKE	DALLAS POWER & LIGHT CO.	59
NORTH MAIN	TEXAS ELECTRIC SERVICE CO.	147
NORTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	165
NORTH OMAHA	OMAHA PUBLIC POWER DIST.	111
NORTH TEXAS	BRAZOS ELECTRIC POWER COOP INC.	38
NORTHEAST	KANSAS CITY POWER & LIGHT CO.	86
NORTHEASTERN	PUBLIC SERVICE CO. OF OKLAHOMA	128

NORTHPORT	LONG ISLAND	LIGHTING CO.	90
NORTHSIDE	JACKSONVILLE	ELECTRIC LIGHT PLT.	85
NORWALK	OHIO EDISON CO		108
NORWALK HARBOR	THE CONNECTICUT	LIGHT & POWER CO.	150
NUCLA	COLORADO - UTE E	ASSN. INC.	49
NUECES BAY	CENTRAL P&L CO.		43
OAK CREEK	WEST TEXAS	UTILITIES CO.	163
OCOTILLO	ARIZONA PUBLIC	SERVICE CO.	31
OHIO RIVER	SOUTHERN INDIANA	G. E. CO.	137
OLEUM	PACIFIC GAS &	ELECTRIC CO.	115
OLINGER	GARLAND MUNICIPAL	UTILITIES	69
OPELOUSAS #2	CITY OF OPELOUSAS		111
ORMOND BEACH	SOUTHERN CALIFORNIA	EDISON CO.	137
OSAGE	OKLAHOMA GAS &	ELECTRIC CO.	110
OSWEGO	NIAGARA-MOHAWK	POWER CORP.	103
OTTAWA	LANSING BOARD OF	W.E.L. COMM.	90
OWENSBORO #1	OWENSBORO	MUNICIPAL UTIL.	113
OYSTER CREEK NUC	JERSEY CENTRAL	POWER & LIGHT CO.	85
PADDYS RUN	LOUISVILLE GAS &	ELECTRIC CO.	92
PAINT CREEK	WEST TEXAS	UTILITIES CO.	164
PALATKA	FLORIDA POWER &	LIGHT CO.	68
PALISADES	CONSUMERS POWER	CO.	56
PALO SECO	PUERTO RICO WATER	RESOURCES AUTH.	129
PARADISE	TENNESSEE VALLEY	AUTHORITY	145
PARISH	HOUSTON LIGHTING	& POWER CO.	77
PARKDALE	DALLAS POWER &	LIGHT CO.	59
PATERSON	NEW ORLEANS	PUBLIC SERVICE INC.	101
PATHFINDER	NORTHERN STATES	POWER CO. (MINN.)	106
PEACH BOTTOM	PHILADELPHIA	ELECTRIC CO.	121
PENNSALT	THE DETROIT	EDISON CO.	152
PERMIAN BASIN	TEXAS ELECTRIC	SERVICE CO.	147
PERRY	INDIANAPOLIS	POWER & LIGHT CO.	80
PERSON	PUBLIC SERVICE	CO. OF NEW MEXICO	123
PETERSBURG	INDIANAPOLIS	POWER & LIGHT CO.	81
PHILLIPS	DUQUESNE LIGHT	CO.	63
PHILO	OHIO POWER CO.		109
PHOENIX	ARIZONA PUBLIC	SERVICE CO	32
PICWAY	COLUMBUS & S OHIO	ELECTRIC CO.	50
PILGRIM	BOSTON EDISON	CO.	37
PINEVILLE	KENTUCKY	UTILITIES CO.	88
PIQUA	PIQUA MUNICIPAL	POWER PLANT	121
PITTSBURG	PACIFIC GAS &	ELECTRIC CO.	115
PLANT #2	LUBBOCK, CITY OF		93
PLANT #3	LAKELAND LIGHT &	WATER DEPT.	89

PLANT X	SOUTHWEST PUBLIC SERVICE CO.	139
POINT BEACH	WISCONSIN ELECTRIC POWER CO.	166
PORT EVERGLADES	FLORIDA POWER & LIGHT CO.	68
PORT JEFFERSON	LONG ISLAND LIGHTING CO.	91
PORT WASHINGTON	WISCONSIN ELECTRIC POWER CO.	166
PORT WENTWORTH	SAVANNAH ELEC & POWER CO.	132
PORTLAND	METRO EDISON CO.	94
PORTSMOUTH	VIRGINIA ELEC & POWER CO.	161
POSSUM POINT	VIRGINIA ELEC & POWER CO.	161
POSTON	COLUMBUS & S OHIO ELECTRIC CO.	50
POTOMAC RIVER	POTOMAC ELECTRIC POWER CO.	123
POTRERO	PACIFIC GAS & ELECTRIC CO.	115
POWERTON	COMMONWEALTH EDISON CO.	52
PRAGER	PUBLIC SERVICE CO. OF NEW MEXICO	123
PRAIRE CREEK #1-3	IOWA ELECTRIC LIGHT & POWER CO.	82
PRAIRE CREEK #4	IOWA ELECTRIC LIGHT & POWER CO.	82
PRESQUE ISLE	UPPER PENINSULA GEN. CO.	159
PRITCHARD	INDIANAPOLIS POWER & LIGHT CO.	80
PUEBLO	CENTRAL TELE & UTIL. CORP. - SO.COLO. PWR	45
PULLIAM	WISCONSIN PUBLIC SERVICE CORP.	167

QUAD CITIES	COMMONWEALTH EDISON CO	52
QUINDARO #2	KANSAS CITY BOARD OF PUBLIC UTILS.	87
QUINDARO #3	KANSAS CITY BOARD OF PUBLIC UTILS.	87

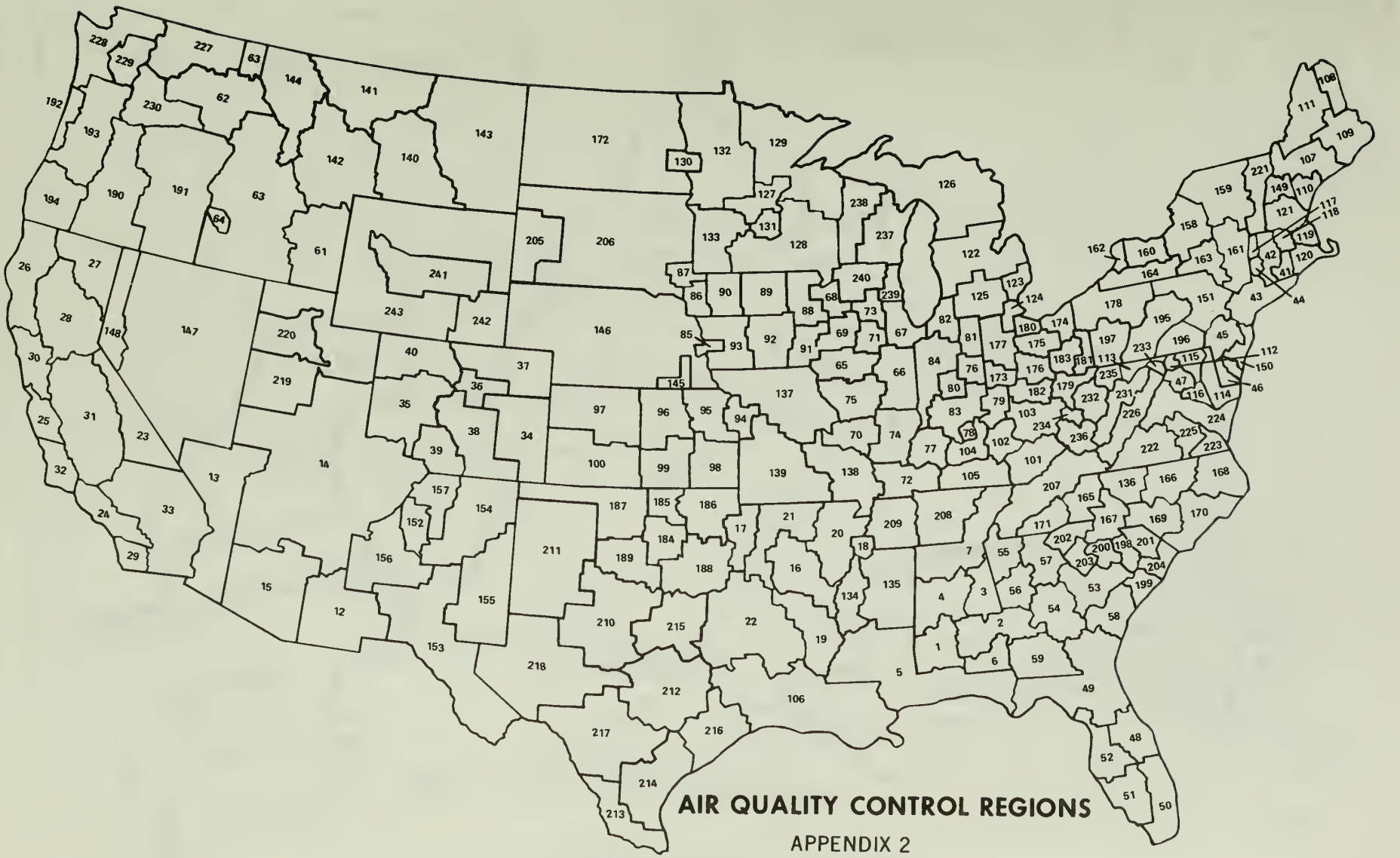
RATTS	INDIANA STATEWIDE R.E.C.	76
RAVENSWOOD	CONSOLIDATED EDISON CO. OF NY	55
REDONDO	SOUTHERN CALIFORNIA EDISON CO.	136
REED	DUQUESNE LIGHT CO.	64
REEVES	PUBLIC SERVICE CO. OF NEW MEXICO	124
REEVES AVENUE	VIRGINIA ELEC & POWER CO.	161
REID	BIG RIVERS RURAL ELECTRIC COOP	36
RICHMOND	PHILADELPHIA ELECTRIC CO.	121
RIDGELAND	COMMONWEALTH EDISON CO.	52
RIO GRANDE	EL PASO ELECTRIC CO.	65
RIO PECOS	WEST TEXAS UTILITIES CO.	164
RIPLEY	KANSAS GAS & ELECTRIC CO.	88
RITCHIE	ARKANSAS POWER & LIGHT CO.	34
RIVER CREST	TEXAS POWER & LIGHT CO.	148
RIVER ROUGE	THE DETROIT EDISON CO.	152
RIVERBEND	DUKE POWER CO.	62
RIVIERA	FLORIDA POWER & LIGHT CO.	69
RIVERSIDE	HOLYOKE WATER POWER CO.	76
RIVERSIDE	BALTIMORE GAS & ELECTRIC CO.	35
RIVERSIDE	SAVANNAH ELECTRIC & POWER CO.	132
RIVERSIDE	NORTHERN STATES POWER CO. (MINN.)	106

RIVERSIDE	IOWA-ILLINOIS GAS & ELECTRIC CO.	83
RIVERTON	EMPIRE DIST. ELECTRIC CO.	65
RIVERTON	POTOMAC EDISON CO. (VA.)	122
RIVERVIEW	SOUTHWEST PUBLIC SERVICE CO.	139
RIVESVILLE	MONONGAHELA POWER CO.	98
ROBINSON	CAROLINA POWER & LIGHT CO.	39
ROBINSON	HOUSTON LIGHTING & POWER CO.	77
ROCHESTER #13	ROCHESTER GAS & ELECTRIC CORP.	130
ROCHESTER #3	ROCHESTER GAS & ELECTRIC CORP.	130
ROCHESTER #7	ROCHESTER GAS & ELECTRIC CORP.	130
ROCK RIVER	WISCONSIN POWER & LIGHT CO.	167
RODEMACHER	CITY OF LAFAYETTE UTIL. SYSTEM	46
ROSWELL	SOUTHWEST PUBLIC SERVICE CO.	139
ROWE	YANKEE ATOMIC ELECTRIC CO.	168
ROXBORO	CAROLINA POWER & LIGHT CO.	40
SABINE	GULF STATES UTILITIES CO.	74
SABROOKE	COMMONWEALTH EDISON CO.	52
SAGINAW RIVER	CONSUMERS POWER CO.	57
SAGUARO	ARIZONA PUBLIC SERVICE CO.	32
SALEM HARBOR	NEW ENGLAND POWER CO.	101
SAMMIS	OHIO EDISON CO.	108
SAN ANGELO	WEST TEXAS UTILITIES CO.	164
SAN BERNARDINO	SOUTHERN CALIFORNIA EDISON CO.	136
SAN JUAN	PUERTO RICO WATER RESOURCES AUTH.	129
SAN ONOFRE	SOUTHERN CALIFORNIA EDISON CO.	136
SANFORD NEW	FLORIDA POWER & LIGHT CO.	69
SAXTON	PENNSYLVANIA ELECTRIC CO.	117
SAYREVILLE	JERSEY CENTRAL POWER & LIGHT CO.	85
SCATTERGOOD	LOS ANGELES DEPT. OF WATER & POWER	91
SCHILLER	PUBLIC SERVICE CO. OF NEW HAMPSHIRE	125
SCHOLTZ	GULF POWER CO.	72
SCHUYLKILL	PHILADELPHIA ELECTRIC CO.	121
SEABOLM	CITY OF AUSTIN ELECTRIC DEPT.	45
SEMINOLE	OKLAHOMA GAS AND ELECTRIC CO.	111
74TH STREET	CONSOLIDATED EDISON CO. OF NY	53
SEVIER	TENNESSEE VALLEY AUTHORITY	144
SEWARD	PENNSYLVANIA ELECTRIC CO.	117
SEWAREN	PUBLIC SERVICE ELECTRIC & GAS CO.	127
SHAWNEE	TENNESSEE VALLEY AUTHORITY	145
SHAWVILLE	PENNSYLVANIA ELECTRIC CO.	117
SHELBY	SHELBY MUNICIPAL LT & POWER	132
SHELDON	NEBRASKA PUB PWR DISTRICT	57
SHIPPINGPORT	DUQUESNE LIGHT CO.	64
SHUFFLETON	PUGET SOUND POWER & LIGHT CO.	130
SIBLEY	MISSOURI PUBLIC SERVICE CO.	97
SILVER GATE	SAN DIEGO GAS & ELECTRIC CO.	131
SIOUX	UNION ELECTRIC CO.	157
SIXTH STREET	IOWA ELECTRIC LIGHT & POWER CO.	82
SMITH	THE POTOMAC EDISON CO.	155
SMITH	OWENSBORO MUNICIPAL UTIL.	113

SMITH	GULF POWER CO.	73
SOMERSET	MONTAUP ELECTRIC CO.	99
SOMMERS	CITY P.S. BD. SAN ANTONIO	47
SOUTH BAY	SAN DIEGO GAS & ELECTRIC CO.	131
SOUTH COAST	PUERTO RICO WATER RESOURCES AUTH.	129
SOUTH MEADOW	THE HARTFORD ELECTRIC LIGHT CO.	153
SOUTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	166
SOUTH STREET	THE NARRAGANSETT ELECTRIC CO.	155
SOUTHEAST	NORTHERN STATES POWER CO. (MINN.)	106
SOUTHSIDE	JACKSONVILLE ELECTRIC LIGHT PLT.	85
SOUTHWARK	PHILADELPHIA ELECTRIC CO.	121
SOUTHWESTERN	PUBLIC SERVICE CO. OF OKLAHOMA	128
SPORN	CENTRAL OPERATING CO.	43
SPRINGDALE	WEST PENNSYLVANIA POWER CO.	162
ST. CLAIR	THE DETROIT EDISON CO.	152
STANTON	UNITED POWER ASSOC.	158
STANTON	PENNSYLVANIA POWER & LIGHT CO.	119
STATE LINE	COMMONWEALTH EDISON CO.	50
STATION B	SAN DIEGO GAS & ELECTRIC CO.	132
STEEL	THE UNITED ILLUMINATING CO.	157
STERLINGTON	LOUISIANA POWER & LIGHT CO.	92
STONEMAN	DAIRYLAND POWER COOPERATIVE	58
STOUT	INDIANAPOLIS POWER & LIGHT CO.	80
STRYKER	TEXAS POWER & LIGHT CO.	148
STUART	THE DAYTON POWER & LIGHT CO.	151
SUNBURY	PENNSYLVANIA POWER & LIGHT CO.	119
SUNRISE	NEVADA POWER CO.	101
SUTHERLAND	IOWA ELECTRIC LIGHT & POWER CO.	82
SUTTON	CAROLINA POWER & LIGHT CO.	40
SUWANNEE	FLORIDA POWER CORP.	67
SWEATT	MISSISSIPPI POWER CO.	96
TAIT	THE DAYTON POWER & LIGHT CO.	150
TAUNTON	TAUNTON MUNICIPAL LIGHTING PLT.	143
TANNERS CREEK	INDIANA & MICHIGAN ELECTRIC CO.	79
TECHE	CENTRAL LOUISIANA ELECTRIC CO.	42
TECUMSEH	THE KANSAS POWER & LIGHT CO.	154
TIDD	OHIO POWER CO.	109
TIGER	DUKE POWER CO.	63
TITUS	METRO EDISON CO.	94
TORONTO	OHIO EDISON CO.	108
TRACY	SIERRA PACIFIC POWER CO.	133
TRADINGHOUSE	TEXAS POWER & LIGHT CO.	148
TRENTON CHANNEL	THE DETROIT EDISON CO.	152
TRINIDAD	TEXAS POWER & LIGHT CO.	148
TULSA	PUBLIC SERVICE CO. OF OKLAHOMA	129
TURKEY POINT	FLORIDA POWER & LIGHT CO.	69
TURNER	FLORIDA POWER CORP.	66

TUTTLE	CITY P. S. BD. SAN ANTONIO	47
12TH STREET	VIRGINIA ELECTRIC & POWER CO.	161
TWIN BRANCH	INDIANA & MICHIGAN ELECTRIC CO.	80
TYRONE	KENTUCKY UTILITIES CO.	89
URQUHART	SOUTH CAROLINA ELECTRIC & GAS CO.	133
VALLEY	TEXAS POWER & LIGHT CO.	149
VALLEY	LOS ANGELES DEPT. OF WATER & POWER	91
VALLEY	WISCONSIN ELECTRIC POWER CO.	166
VALMONT	PUBLIC SERVICE CO. OF COLORADO	123
VENICE #1	UNION ELECTRIC CO.	158
VENICE #2	UNION ELECTRIC CO.	158
VERMILION	ILLINOIS POWER CO.	78
VICTORIA	CENTRAL P&L CO.	44
VIENNA	DELMARVA POWER & LIGHT CO. OF MD.	60
WABASH RIVER	PUBLIC SERVICE CO. OF INDIANA INC.	125
WAGNER	BALTIMORE GAS & ELECTRIC CO.	35
WAIAU	HAWAIIAN ELECTRIC CO. INC.	75
WALLACE	CENTRAL ILLINOIS LIGHT CO.	42
WARREN	PENNSYLVANIA ELECTRIC CO.	118
WARRICK	SOUTHERN INDIANA G. E. CO.	138
WATEREE	SOUTH CAROLINA ELECTRIC & GAS CO.	134
WATERSIDE	CONSOLIDATED EDISON CO. OF NY	55
WATSON	MISSISSIPPI POWER CO.	96
WATTS BAR	TENNESSEE VALLEY AUTHORITY	145
WAUKEGAN	COMMONWEALTH EDISON CO.	53
WEADOCK	CONSUMERS POWER CO.	57
WEATHERSPOON	CAROLINA POWER & LIGHT CO.	40
WEBSTER	HOUSTON LIGHTING & POWER CO.	78
WELEETKA	PUBLIC SERVICE CO. OF OKLAHOMA	129
WERNER	JERSEY CENTRAL POWER & LIGHT CO.	85
WEST END	THE CINCINNATI GAS & ELECTRIC CO.	149
WEST SPRINGFIELD	WESTERN MASSACHUSETTS ELECTRIC	165
WESTON	WISCONSIN PUBLIC SERVICE CORP.	167
WESTPORT	BALTIMORE GAS & ELECTRIC CO.	35
WHARTON	HOUSTON LIGHTING & POWER CO.	77
WHITING	CONSUMERS POWER CO.	57
WICHITA FALLS	TEXAS ELECTRIC SERVICE CO.	147
WIDOWS CREEK A	TENNESSEE VALLEY AUTHORITY	145
WIDOWS CREEK B	TENNESSEE VALLEY AUTHORITY	145
WILKES	SOUTHWESTERN ELECTRIC POWER CO.	141

WILL COUNTY	COMMONWEALTH EDISON CO.	53
WILLIAMSBURG	PENNSYLVANIA ELECTRIC CO.	118
WILLOW GLEN	GULF STATES UTILITIES CO.	74
WILLOW ISLAND	MONONGAHELA POWER CO.	98
WILMARTH	NORTHERN STATES POWER CO. (MINN.)	106
WILSON	MISSISSIPPI POWER & LIGHT CO.	96
WINDSOR	BEECH BOTTOM POWER CO.	36
WINNETKA	WINNETKA, VILLAGE OF	165
WOOD RIVER	ILLINOIS POWER CO.	79
WOODCOCK	OHIO POWER CO.	109
WYANDOTTE	THE DETROIT EDISON CO.	153
WYMAN	CENTRAL MAINE PWR CO.	42
YATES	GEORGIA POWER CO.	71
YORKTOWN	VIRGINIA ELECTRIC & POWER CO.	161
YOUNG	MINNKOTA POWER COOP.	95
YUCCA	ARIZONA PUBLIC SERVICE CO.	32
ZUNI	PUBLIC SERVICE CO. OF COLORADO	128



AIR QUALITY CONTROL REGIONS

APPENDIX 2

WATER RESOURCE REGIONS

APPENDIX 3

Water Resource Regions

The following list gives the numbers and names of the Water Resource Regions as used in the summary tables of this publication. Where the names given on the map differ from those on the summary tables, the map name is given parenthetically:

1. New England
2. Middle Atlantic
3. South Atlantic - Gulf
4. Great Lakes
5. Ohio
6. Tennessee
7. Upper Mississippi
8. Lower Mississippi
9. Souris - Red - Rainy
10. Missouri (Missouri Basin)
11. Arkansas - White - Red
12. Texas - Gulf
13. Rio Grande
14. Upper Colorado
15. Lower Colorado
16. Great Basin
17. Columbia - North Pacific (Pacific Northwest)
18. California - South Pacific (California)

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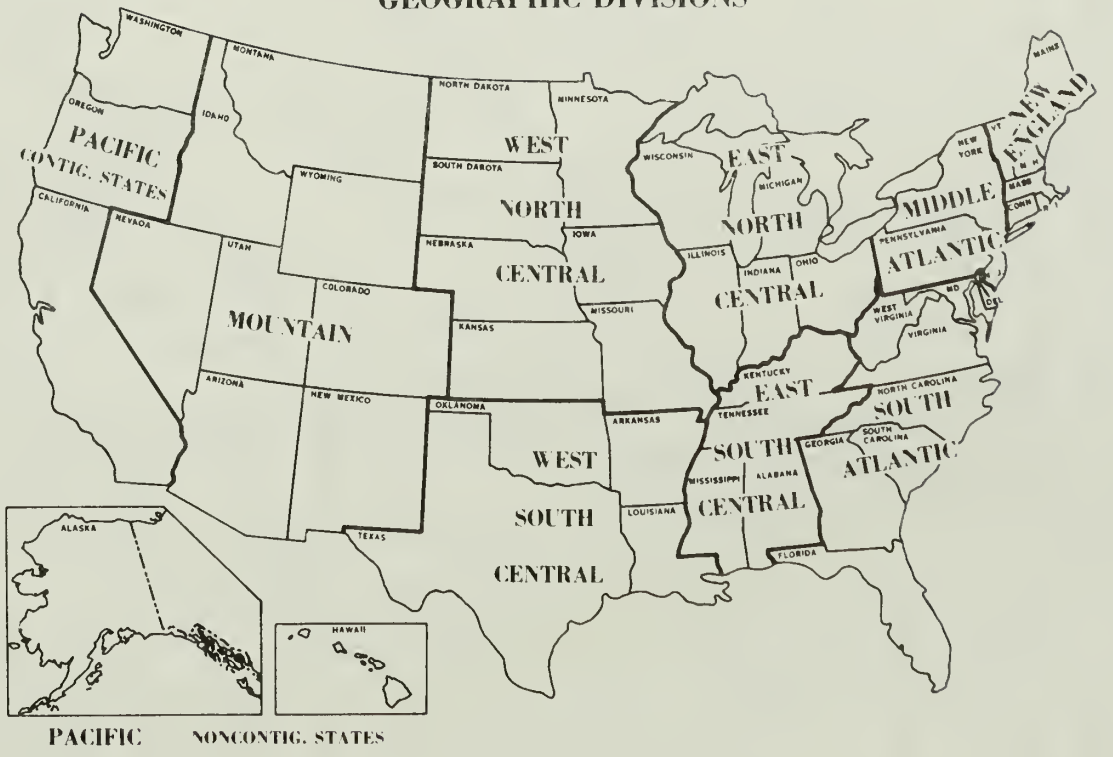
GEOGRAPHIC DIVISIONS



APPENDIX 4

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